
Safety

Dixon®'s couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturer's (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have become loose. Visit ARPMINC.com for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's Testing and Recommendation Services. Call 877.963.4966 or click dixonvalve.com to learn more.



The Importance of Whip Hose

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide a safer working environment, connect one end of a 3' to 10' length of air hose to the tool using Dixon's No. 3500 Steel Nipple. This nipple is designed to specifically handle vibration applications. Connect the other end of hose to the air supply using the standard quick-acting coupling. The Whip Hose should remain permanently connected to the tool.



OSHA Regulations

ASME Air Receiver Manifold-1910.169; 1926.306
King Safety Cable- 1926.302 (b1)
Air King® Safety Clip-1926.302 (b2)

Safety Check Valve- 1926.302 (b7)
Safety Vented Ball Valve- 1910.147

The regulations may be viewed in full on the OSHA website, osha.gov. Please check the website for updates.

Installation and Inspection Procedures

Procedure # 1000

Boss® clamp selection

Procedure # 2000

Installation of Boss 2 bolt clamp

Procedure # 2001

Installation of Boss 4 bolt clamp

Procedure # 2300

Installation of King Cable®

Procedure # 2306

Crimping Unirange, Air King, Dix-Lock® and Dual-Lock couplings

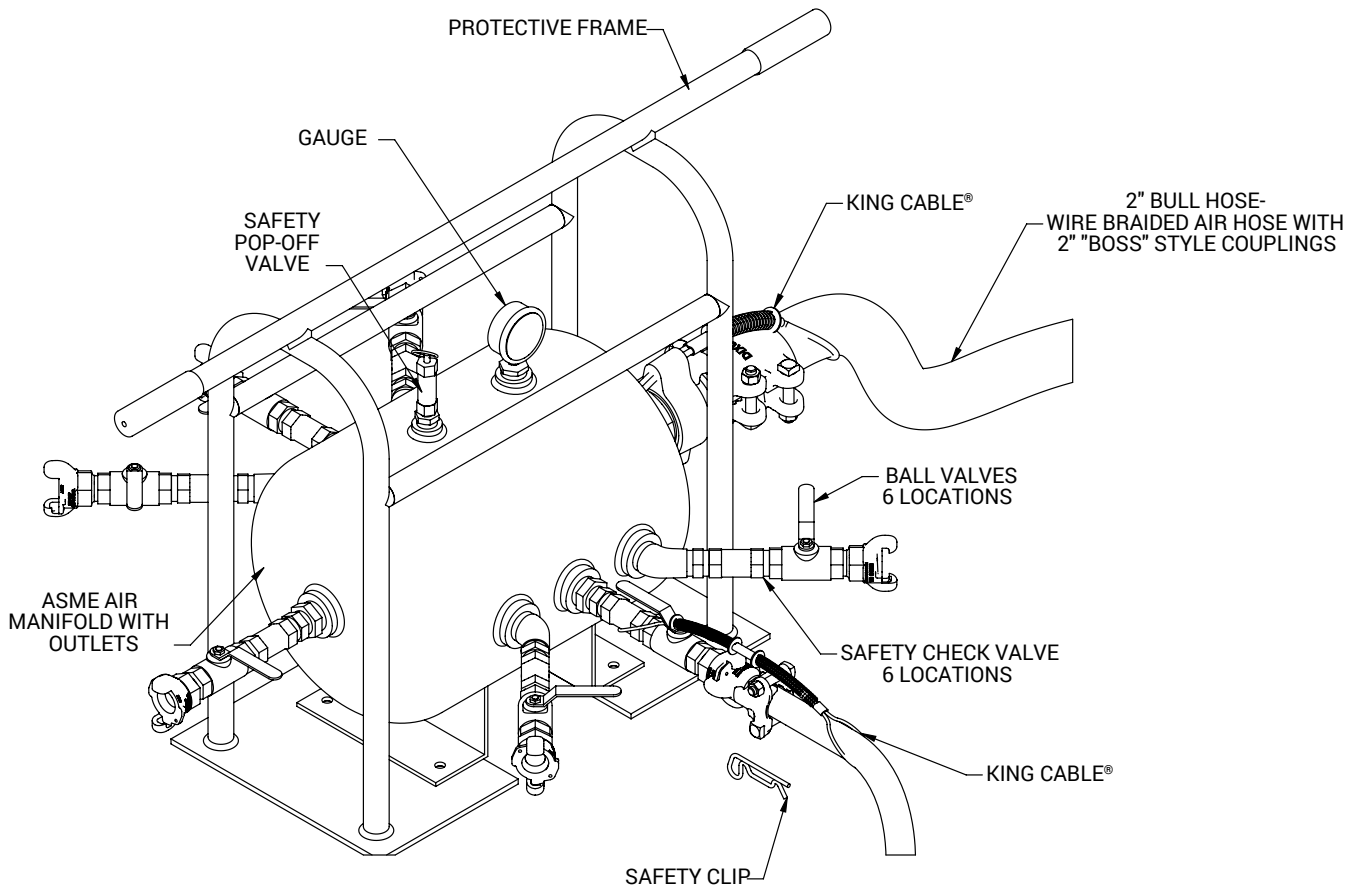
Procedure # 3001

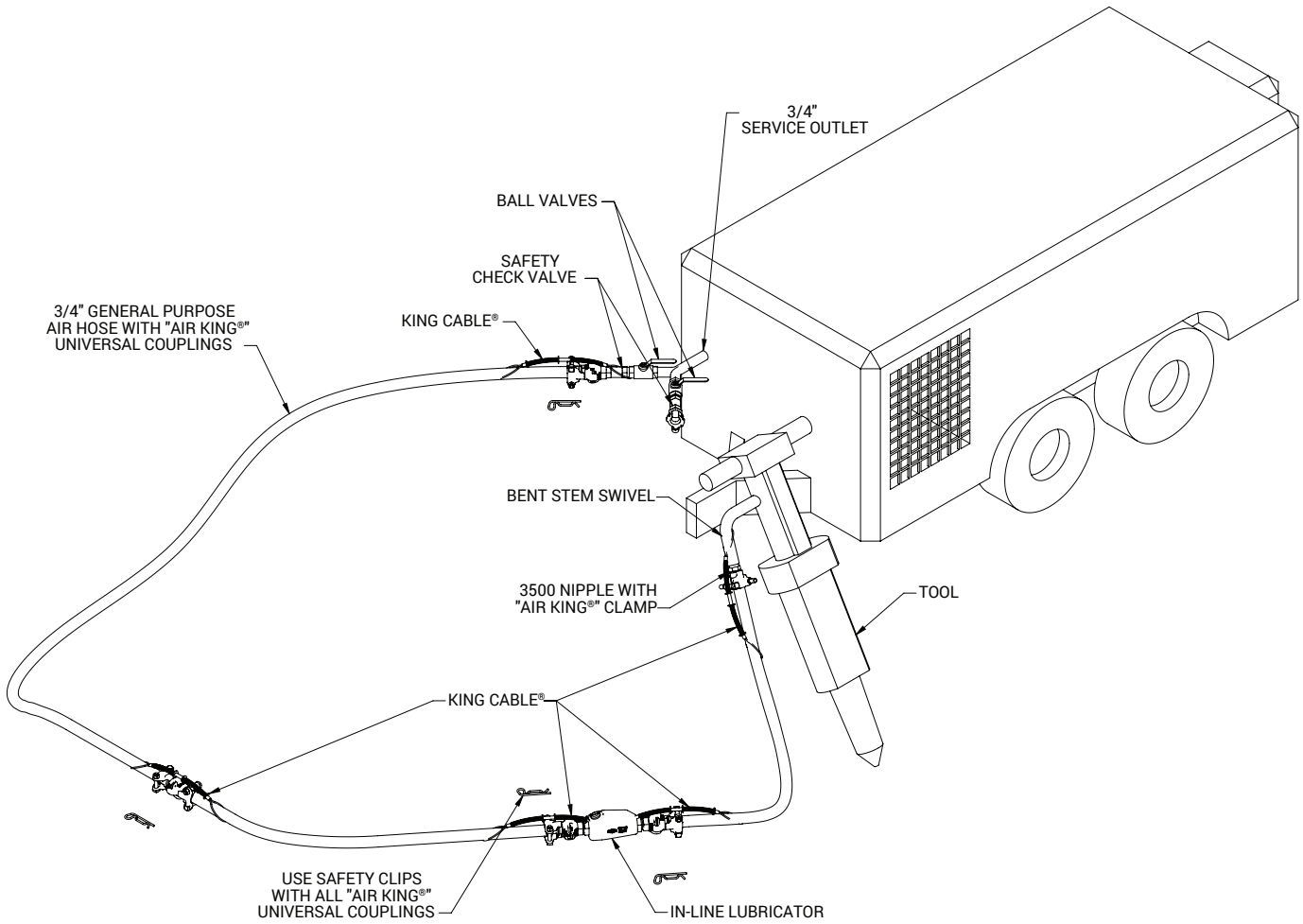
Bolt Clamp Inspection

A printed copy of the complete Installation and Inspection Procedures Manual is available upon request.

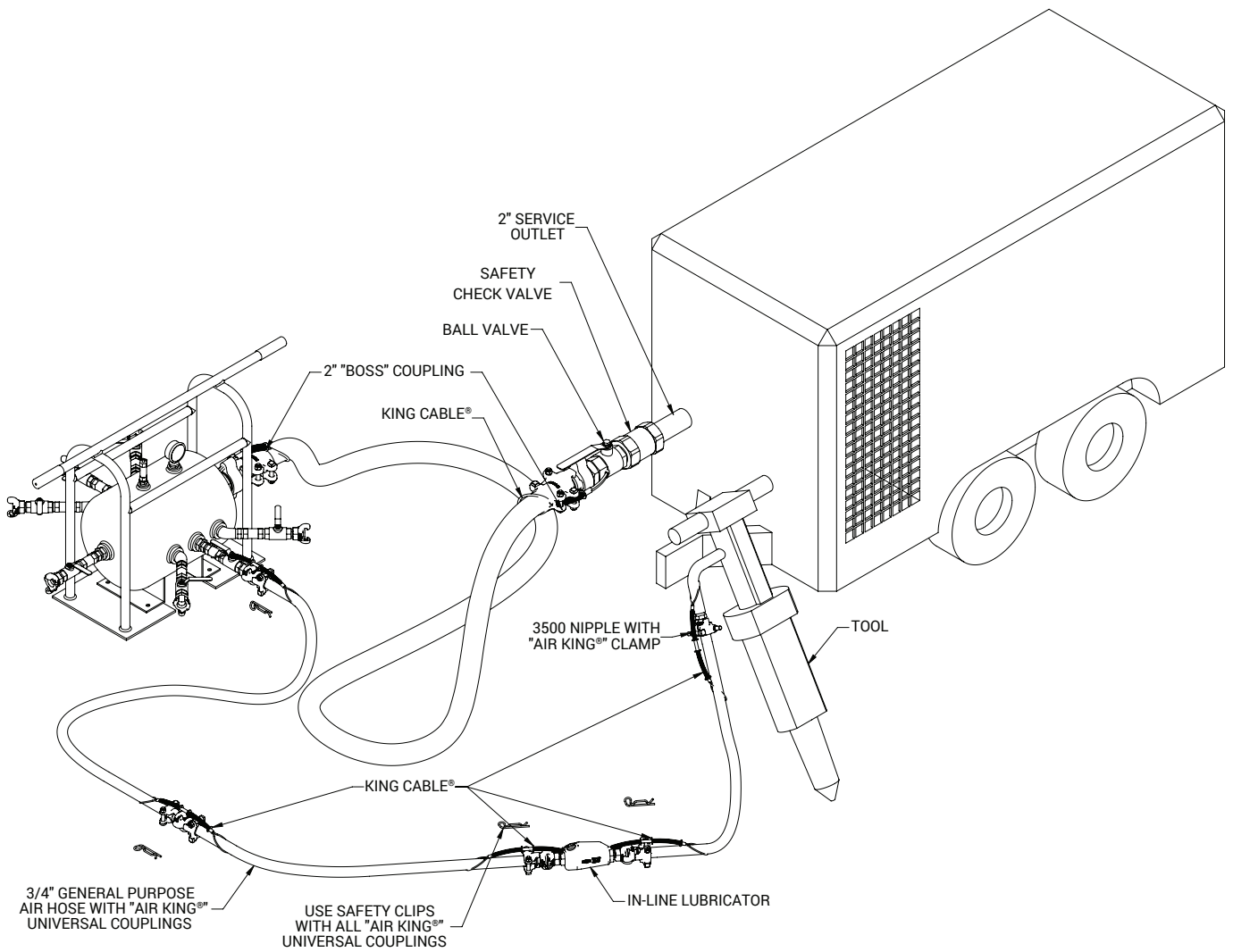
All dimensions are nominal.

Detailed view of manifold assembly





Compressor 600 CFM



Air King® Universal Couplings

Service

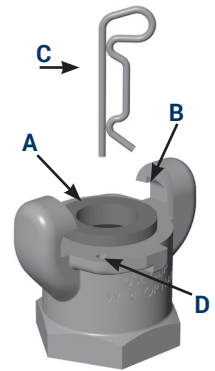
- The maximum recommended working pressure for Air King is **150 PSI** at ambient temperature **70°F (21°C)**.
- For air and water service only. **Warning: Not to be used for steam.**



Features

- A universal head that is identical for all parts in the 1/4" to 1" range. With this head, any Dixon® fittings within that range can be connected regardless of hose shank or thread size.
- Couplings with optional ferrules permanently attached are provided ready to install.
- **Safety** - There are three safety features built into every Air King

1. Washer design (A) – Dixon AWR4 washers supplied with every Air King are designed to seal up to **150 PSI**. The washer design helps keep the coupling together while pressurized.
2. Internal lug design (B) –Cast inside each Air King lug is a ninety-degree step that locks with an opposite step on the outside of the adjoining Air King part. These step-locks provide additional holding power to keep the Air King connected up to its **150 PSI** rating at **70° F (21°C)** ambient temperature.
3. Safety clip (C) – Unexpected twisting of hose assemblies can occur during use. To eliminate the possibility of accidentally disconnecting, each Air King comes with a safety clip. This clip is designed to be inserted into the locking holes (D) on the fittings. The use of a safety clip assures the users that the fittings have been properly connected.



Connecting

- Push two couplings together and turn the one in your right hand until they seat.
- Insert an Air King safety clip through the hole in the flanged area of the head. If a safety clip is not available, use a cotter pin or wire type retainer. Lanyards (not pictured, see page 8) are available separately to fasten the Safety Clip to the locking head.

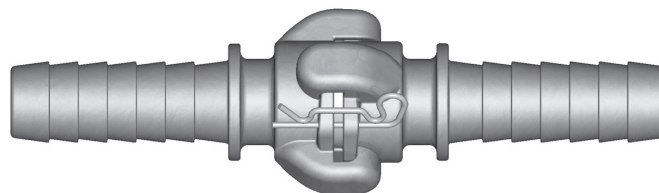
Disconnecting

- Remove the safety clip, cotter pin or wire. Press the couplings together and turn the one in your right hand until they unseat. **Never attempt to disconnect any hose while pressure is in the line.**



Interchange

- Although Air King may couple with other manufacturers' fittings, **we do not recommend their use with other products.** Not all universal locking heads are made to the same standard.



Air King meets pressure requirements as specified in Commercial Item Description A-A-59553 that supersedes Mil Spec. WWC-633D.

⚠ WARNING

The use of an Air King® safety clip or wire type retainer is necessary to ensure Air King universal couplings will not become accidentally disconnected. This guarantees the fittings are properly connected because the safety pin will not go through the holes in mating flanges until couplings are locked in place. Only one Air King safety clip or wire type retainer is required for each Air King universal coupling.

Features

- Can be used with Air King ferrules
- Supplied with safety clip
- Supplied with rubber washers, part # AWR4

Specifications

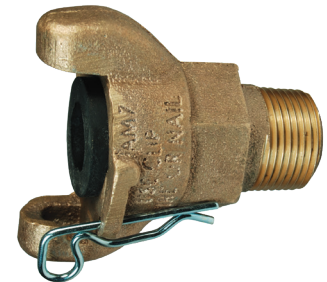
- Pressure rating: **150 PSI** at ambient temperature **70°F (21°C)**
- Meets pressure requirements as specified in A-A-59553 commercial item description superseding Mil Spec.WWC-633D

2-Lug Male NPT Ends

Feature

- Male NPT thread with hex for a wrench

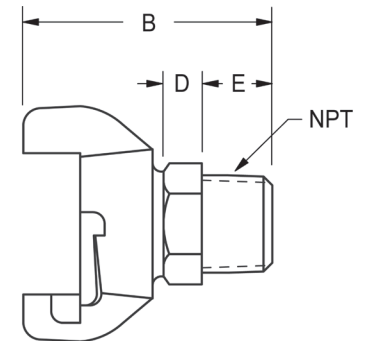
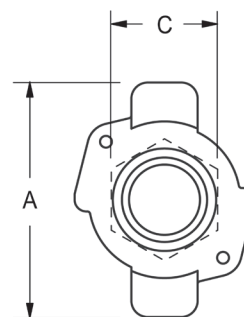
| Size | Iron Part # | Brass Part # | 316 Stainless Steel Part # |
|------|-------------|--------------------|----------------------------|
| 1/4" | AMB1 | ABB1 | --- |
| 3/8" | AMB | ABB | RAMB |
| 1/2" | AM2 | GAB2 ¹ | RAM2 |
| 3/4" | AM7 | GAB7 ¹ | RAM7 |
| 1" | AM12 | GAB12 ¹ | RAM12 |



¹ Global investment cast

Dimensions

| Size | A | B | C | D | E | NPT |
|------|--------|----------|--------|-------|--------|------|
| 1/4" | 2-1/2" | 2-9/16" | 1" | 9/16" | 5/8" | 1/4" |
| 3/8" | 2-1/2" | 2-9/16" | 1" | 9/16" | 5/8" | 3/8" |
| 1/2" | 2-1/2" | 2-11/16" | 1-1/8" | 1/2" | 3/4" | 1/2" |
| 3/4" | 2-1/2" | 2-13/16" | 1-3/8" | 9-16" | 13/16" | 3/4" |
| 1" | 2-1/2" | 2-13/16" | 1-1/2" | 3/8" | 13/16" | 1" |



2-Lug Female NPT Ends

Feature

- Female NPT thread with hex for a wrench

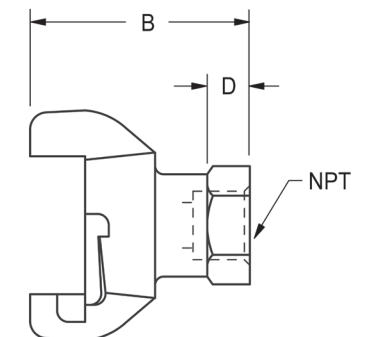
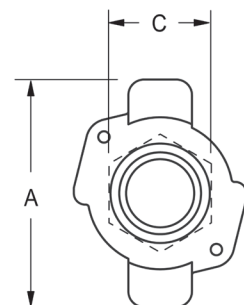
| Size | Iron Part # | Brass Part # | 316 Stainless Steel Part # |
|------|-------------|--------------------|----------------------------|
| 1/4" | AMC1 | ABC1 | --- |
| 3/8" | AMC | ABC | RAMC |
| 1/2" | AM3 | GAB3 ¹ | RAM3 |
| 3/4" | AM8 | GAB8 ¹ | RAM8 |
| 1" | AM13 | GAB13 ¹ | RAM13 |



¹ Global investment cast

Dimensions

| Size | A | B | C | D | NPT |
|------|--------|---------|---------|------|------|
| 1/4" | 2-1/2" | 2-7/16" | 1-1/8" | 3/8" | 1/4" |
| 3/8" | 2-1/2" | 2-7/16" | 1-1/8" | 3/8" | 3/8" |
| 1/2" | 2-1/2" | 2-7/16" | 1-1/8" | 3/8" | 1/2" |
| 3/4" | 2-1/2" | 2-7/16" | 1-7/16" | 3/8" | 3/4" |
| 1" | 2-1/2" | 2-1/16" | 1-5/8" | 3/8" | 1" |



NOTE: Air King is for air and water service only, Warning: Never use any Air King coupling for steam service! None of Dixon®'s catalog information is to be interpreted to mean that this type of coupling is suitable for use on steam hose.

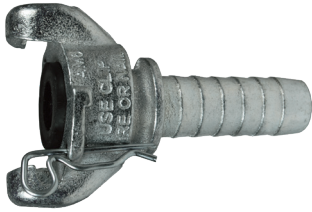
2-Lug Hose Ends

Features

- Can be used with Air King ferrules
- Supplied with safety clip
- Supplied with rubber washers, part # AWR4

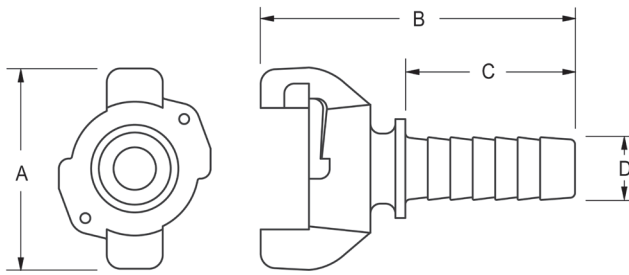
Specifications

- Pressure rating: **150 PSI** at ambient temperature **70°F (21°C)**
- Meets pressure requirements as specified in A-A-59553 commercial item description superseding Mil Specification WWC-633D



| Size | Iron Part # | Brass Part # | 316 Stainless Steel Part # |
|------|------------------|--------------------|----------------------------|
| 3/8" | AMH ¹ | GABH ¹ | RAMH |
| 1/2" | AM1 | GAB1 ¹ | RAM1 |
| 5/8" | AM5 | AB5 | --- |
| 3/4" | AM6 | GAB6 ¹ | RAM6 |
| 1" | AM11 | GAB11 ¹ | RAM11 |

¹ Global investment cast



Dimensions

| Size | A | B | C | D |
|------|--------|----------|----------|---------|
| 3/8" | 2-1/2" | 3-7/16" | 1-5/8" | 7/16" |
| 1/2" | 2-1/2" | 3-7/16" | 1-5/8" | 17/32" |
| 5/8" | 2-1/2" | 4-1/4" | 2-7/16" | 11/16" |
| 3/4" | 2-1/2" | 4" | 2-1/16" | 25/32" |
| 1" | 2-1/2" | 4-25/32" | 2-11/16" | 1-1/16" |

Clamps

Feature

- Torque values for clamps are based on dry bolts, the use of lubricant on bolts will adversely effect clamp performance



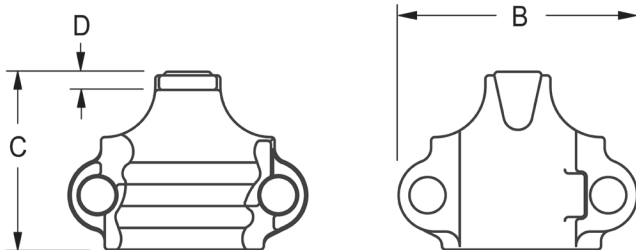
| Size | Hose O.D. | | Zinc Plated Iron Part # | Torque ¹ |
|------|-----------|----------|-------------------------|---------------------|
| | From: | To: | | |
| 3/8" | 44/64" | 56/64" | CD ³ | 6 |
| 1/2" | 1" | 1-12/64" | A4 ³ | 6 |
| 3/4" | 1-8/64" | 1-20/64" | A9 ³ | 21 |
| 1" | 1-20/64" | 1-32/64" | A10 ^{2,3} | 21 |
| 1" | 1-32/64" | 1-52/64" | A14 | 21 |

¹ Recommended torque rating in lbs.

² Can be used with AM6 and AM11

³ Global investment cast carbon steel

NOTE: Torque values for clamps are based on dry bolts, the use of lubricant on bolts will adversely effect clamp performance



Dimensions

| Size | A | B | C | D |
|------|--------|----------|----------|-------|
| 3/8" | 17/32" | 1-11/16" | 1-7/16" | 1/8" |
| 1/2" | 25/32" | 2-1/16" | 1-17/32" | 5/32" |
| 3/4" | 7/8" | 2-13/16" | 1-21/32" | 1/8" |
| 1" | 1" | 2-19/32" | 1-15/16" | 9/32" |
| 1" | 3/4" | 3-1/32" | 2-1/4" | 5/32" |

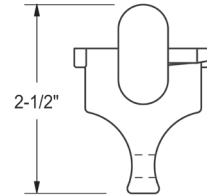
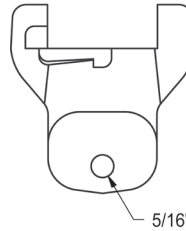
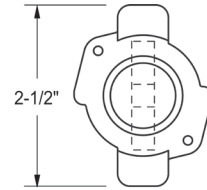
Blank Ends

Features

- Blank end fittings have no outlet and are used to block the line at any coupling point
- The end opposite the coupling head is flat, with an eye for a chain to secure the fitting when not in use

| Iron Part # | Brass Part # | 316 Stainless Steel Part # |
|-------------|-------------------|----------------------------|
| AM0 | GAB0 ¹ | RAM0 |

¹ Global investment cast



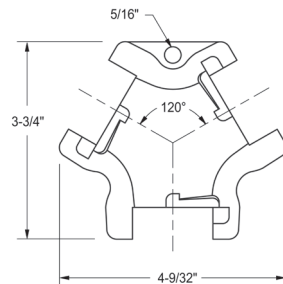
Triple Connections

Feature

- Triple connection consists of three universal couplings that provide an extra outlet when connected to the line

| Iron Part # | Brass Part # |
|-------------|--------------------|
| AM10 | GAB10 ¹ |

¹ Global investment cast



Air King® Safety Pins, Clips, Lanyards, and Washers

The use of an Air King safety clip or wire type retainer is necessary to ensure the couplings will not become accidentally disconnected. The clip will not go through the locking holes unless the couplings are locked in place. Only one safety clip or wire type retainer is required for each assembly.



Standard Safety Clips

Feature

- Same size for all coupling sizes

| Wire Diameter | Part # |
|---------------|--------|
| .080 | AC1 |



Air King Safety Pins

Feature

- Heavy duty, oversized

| Wire Diameter | Part # |
|---------------|--------|
| .058 | AKSP1 |
| .091 | AKSP25 |



Lanyards

Feature

- Same size for all coupling sizes
- Synthetic cord

| Part # |
|--------|
| ACL8 |



Stainless Steel Clips

Feature

- Same size for all coupling sizes

| Wire Diameter | Part # |
|---------------|--------|
| .072 | AC7 |



Feature

- Breaking strength: 160 lbs.
- Overall length: 7" eye to eye

| 304 Stainless Part # |
|----------------------|
| LR7 |



Washers

Features

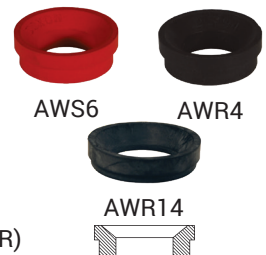
- 2-lug couplings use the same size washer, part #'s AWR4, AWS6
- Neoprene is oil resistant
- 4-lug couplings use the same size washer, part #'s AWR14

Specifications

- Rubber temperature range: -20°F to 160°F (-29°C to 71°C)
- Neoprene temperature range: -20°F to 190°F (-29°C to 88°C)

| Part # | Material | Style |
|-------------------|----------|-------|
| AWR4 ¹ | rubber | 2 lug |
| AWS6 | neoprene | 2 lug |
| AWR14 | rubber | 4 lug |


¹ Made from Styrene-butadiene (SBR)



Air King® with Ferrules



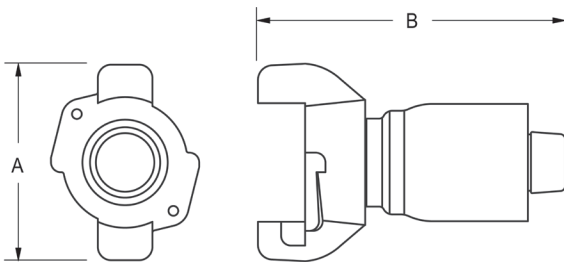
Features

- Design provides quick, easy, and effective coupling of air hose
- Interlocking ferrule can be crimped or swaged to achieve maximum coupling sealing and retention with a low-profile streamline appearance, for crimp or swage diameter recommendations go to dixonvalve.com
- For air and water service only 

Specification

- Working pressure: **150 PSI** at ambient temperature **70°F (21°C)**

| Size | Hose O.D. | | Iron Part # | 316 Stainless Steel Part # |
|------|-----------|----------|-------------|----------------------------|
| | From | To | | |
| 1/2" | 54/64" | 1-2/64" | AM1WF | RAM1WF |
| 3/4" | 1-4/64" | 1-22/64" | AM6WF | RAM6WF |
| 1" | 1-18/64" | 1-34/64" | AM11WF-1 | --- |
| 1" | 1-30/64" | 1-46/64" | AM11WF | --- |
| 1" | 2-1/64" | 2-8/64" | AM21WF | --- |
| 2" | 2-28/64" | 2-40/64" | AM26WF | --- |



Dimensions


| Size | A | B |
|------|--------|----------|
| 1/2" | 2-1/2" | 3-7/16" |
| 3/4" | 2-1/2" | 3-15/16" |
| 1" | 2-1/2" | 4-25/32" |
| 2" | 3-3/4" | 6-1/16" |

4-Lug Quick Acting Couplings

Hose Ends



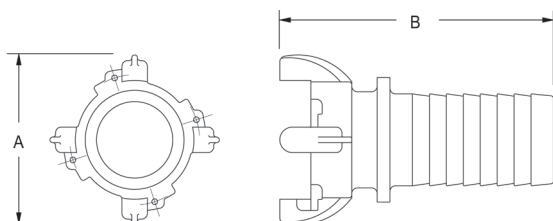
Features

- Not to be used for steam service, must use safety clips 
- Safety clips are same size for both 2-lug and 4-lug Universal Couplings, see page 9, use safety clips on all Universal Coupling applications
- Boss® clamps recommended, see pages 26 and 27 for clamp selection
- Supplied with safety clip and rubber washers

Specifications

- Pressure rating: **150 PSI** at ambient temperature **70°F (21°C)**

| Size | Iron Part # |
|--------|-------------|
| 1-1/4" | AM16 |
| 1-1/2" | AM21 |
| 2" | AM26 |



Dimensions

| Size | A | B |
|--------|---------|--------|
| 1-1/4" | 5-5/8" | 3-3/4" |
| 1-1/2" | 5-7/8" | 3-3/4" |
| 2" | 6-1/16" | 3-3/4" |

4-Lug Quick Acting Couplings

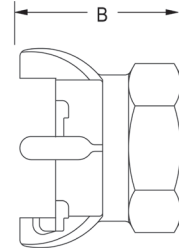
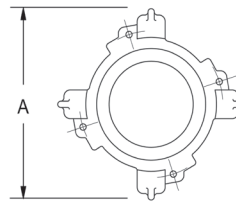
Female NPT Ends

| Size | Iron Part # |
|--------|-------------|
| 1-1/4" | AM18 |
| 1-1/2" | AM23 |
| 2" | AM28 |



Dimensions

| Size | A | B |
|--------|----------|--------|
| 1-1/4" | 2-15/16" | 3-3/4" |
| 1-1/2" | 3" | 3-3/4" |
| 2" | 3-3/32" | 3-3/4" |



Rubber Washer for 4-lug

| Part # |
|--------|
| AWR14 |



NOTE: Fits all sizes

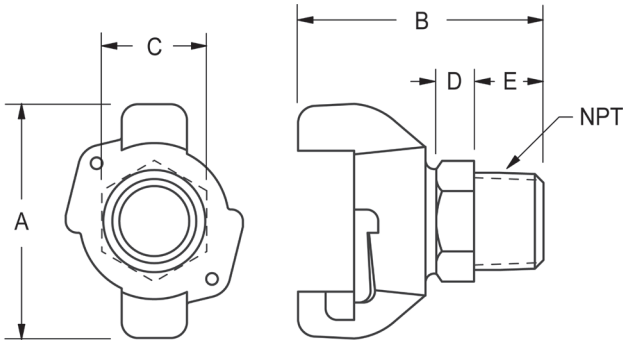
Male NPT Ends



Features

- Male NPT thread with hex for a wrench
- Supplied with safety clip and rubber washers

| Size | Plated Steel Part # |
|------|---------------------|
| 1/2" | GAM2 |
| 3/4" | GAM7 |
| 1" | GAM12 |



Dimensions

| Size | A | B | C | D | E | NPT |
|------|--------|----------|----------|--------|------|------|
| 1/2" | 2-1/2" | 2-11/16" | 1" | 3/8" | 7/8" | 1/2" |
| 3/4" | 2-1/2" | 2-11/16" | 1-11/32" | 21/64" | 7/8" | 3/4" |
| 1" | 2-1/2" | 2-3/4" | 1-1/2" | 5/16" | 1" | 1" |

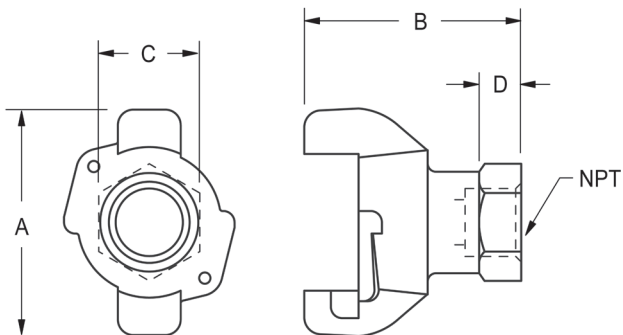
Female NPT Ends



Features

- Female NPT thread with hex for a wrench
- Supplied with safety clip and rubber washers

| Size | Plated Steel Part # |
|------|---------------------|
| 1/2" | GAM3 |
| 3/4" | GAM8 |
| 1" | GAM13 |



Dimensions

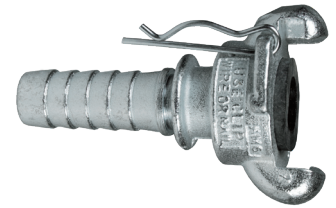
| Size | A | B | C | D | NPT |
|------|--------|----------|---------|------|------|
| 1/2" | 2-1/2" | 2-1/8" | 1-1/8" | 3/8" | 1/2" |
| 3/4" | 2-1/2" | 2-5/32" | 1-7/16" | 3/8" | 3/4" |
| 1" | 2-1/2" | 2-13/16" | 1-5/8" | 3/8" | 1" |

Hose Ends

Feature

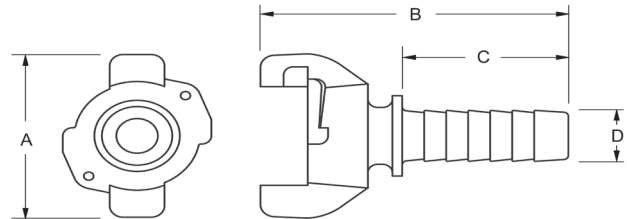
- Supplied with safety clip and rubber washers

| Size | Plated Steel Part # |
|------|---------------------|
| 1/2" | GAM1 |
| 3/4" | GAM6 |
| 1" | GAM11 |



Dimensions

| Size | A | B | C | D |
|------|--------|----------|----------|---------|
| 1/2" | 2-1/2" | 3-3/8" | 1-21/32" | 17/32" |
| 3/4" | 2-1/2" | 3-31/32" | 2-1/8" | 25/32" |
| 1" | 2-1/2" | 4-21/32" | 2-25/32" | 1-1/16" |

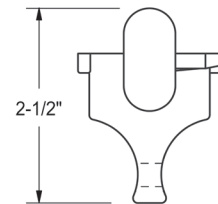
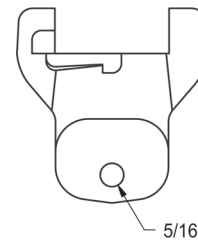
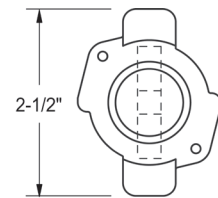


Blank Ends

Features

- Blank end fittings have no outlet and are used to block the line at any coupling point
- The end opposite the coupling head is flat, with an eye for a chain to secure the fitting when not in use

| Plated Steel Part # |
|---------------------|
| GAM0 |

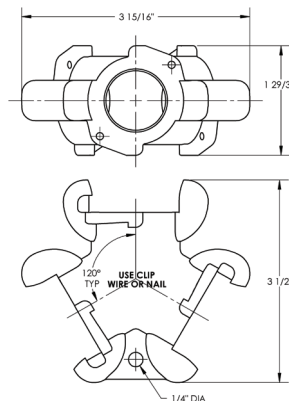


Triple Connection

Feature

- Triple connection consists of three universal couplings that provide an extra outlet when connected to the lineyeah

| Plated Steel Part # |
|---------------------|
| GAM10 |



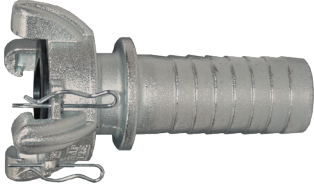
4-Lug Quick Acting Couplings - Hose Ends

Features

- Supplied with safety clip and rubber washers
- Use with Boss® clamps
- Not to be used for steam service
- Must use safety clips, safety clips are same size for both 2-lug and 4-lug Air King® Couplings

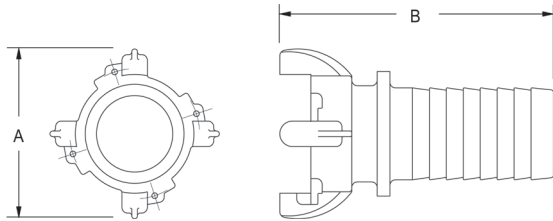
Specification

- Pressure rating: 150 PSI at ambient temperature 70°F (21°C)



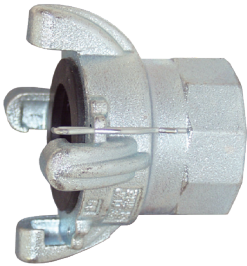
| Size | Plated Steel Part # |
|--------|---------------------|
| 1-1/4" | GAM16 |
| 1-1/2" | GAM21 |
| 2" | GAM26 |

Dimensions



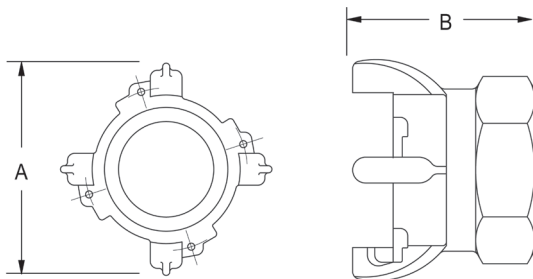
| Size | A | B |
|--------|--------|---------|
| 1-1/4" | 3-3/4" | 5-5/8" |
| 1-1/2" | 3-3/4" | 5-7/8" |
| 2" | 3-3/4" | 6-1/16" |

4-Lug Quick Acting Couplings - Female NPT Ends



| Size | Plated Steel Part # |
|--------|---------------------|
| 1-1/4" | GAM18 |
| 1-1/2" | GAM23 |
| 2" | GAM28 |

Dimensions



| Size | A | B |
|--------|--------|----------|
| 1-1/4" | 3-3/4" | 2-15/16" |
| 1-1/2" | 3-3/4" | 3" |
| 2" | 3-3/4" | 3-3/32" |

Boss Coupling System

The spud part of the coupling serves as one half of the connection and is usually fixed to the equipment. The stem part that is clamped to the hose is the other half. The two halves are connected or disconnected by rotating the wing nut onto the spud. When connected they achieve both a mechanical and a pressure seal.

Boss couplings are all-purpose hose couplings, universally recommended for steam hose connections. They are also widely used for air, water, fluid petroleum, chemicals, and liquid petroleum gas up to 1" I.D. Boss couplings can be applied to many types of rubber, synthetic, plastic, metallic, or semi-metallic hose. Consult Dixon® for specific media capabilities.

Boss couplings supply a convenient threaded fitting to connect two lengths of hose, or a single length to a male or

female threaded (NPT) outlet.

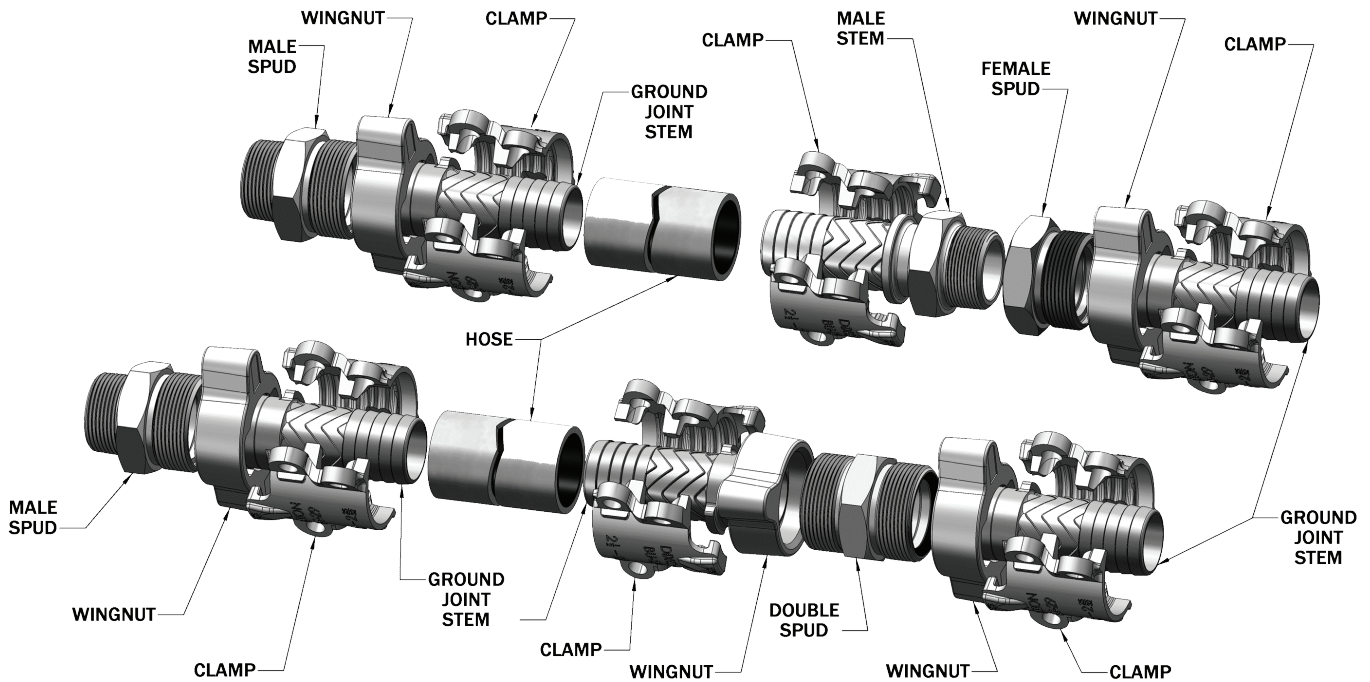
Stem: 1/4" - 1" plated steel, 1-1/4" - 4" plated iron, 6" tubular steel

Spud: 1/4" - 1" plated steel, 1-1/4" - 6" plated iron

Wing nut: 1/4" plated steel, 3/8" - 6" plated iron

Ground joint: copper or polymer seats

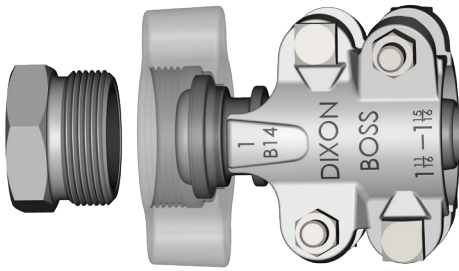
Washer: Klingersil® C-4401



Worn-out hose couplings can be dangerous. They should be checked regularly and replaced when necessary. Each coupling user should review applications and add safety devices where indicated.



Boss Ground Joint Couplings with Female Spud



Features

- Positive metal-to-polymer seal
- Leakproof seal forms when the metal head of the stem makes contact with the patented polymer seat in the spud
- Non-metallic polymer seat resists most chemicals found in manufacturing facilities
- Easy to seal
- Use with Boss clamps found on page 26 and 27

Specification

- Recommended for steam service up to 450°F (232°C)



Plated iron/steel

316 stainless steel

Brass

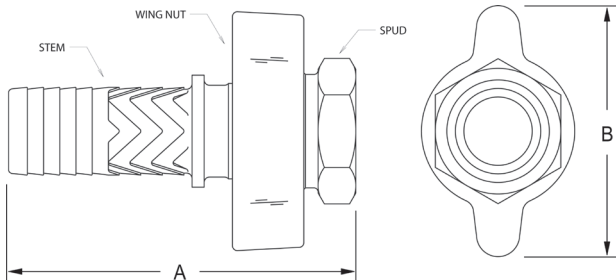
| Hose Shank x NPT | Plated Steel and/or Iron Part # | 316 Stainless Steel Part # | Brass Part # |
|------------------|---------------------------------|----------------------------|--------------|
| 1/4" | GF1 ¹ | --- | --- |
| 3/8" | GF3 ¹ | --- | --- |
| 1/2" | GF6 | --- | --- |
| 1/2" x 3/4" | GF26-1 | --- | --- |
| 3/4" | GF26 | RGF26 | BGF26 |
| 1" | GF36 | RGF36 | BGF36 |
| 1-1/4" | GF51 | RGF51 | --- |
| 1-1/2" | GF61 | RGF61 | --- |
| 2" | GF81 ² | RGF81 ² | --- |
| 2-1/2" | GF96 | --- | --- |
| 3" | GF111 | --- | --- |
| 4" | GF141 | --- | --- |
| 6" | GF201 ¹ | --- | --- |

¹ 1/4", 3/8", and 6" available only with copper seat spuds

² Not to be used with #250, #275, or #306 Boss clamps



Dimensions



| Size | A | B |
|--------|----------|----------------------|
| 1/4" | 2-1/2" | 1-5/32" ¹ |
| 3/8" | 3-1/32" | 1-3/4" |
| 1/2" | 3-21/32" | 2-3/8" |
| 3/4" | 4-15/16" | 3-9/16" |
| 1" | 5-3/16" | 3-9/16" |
| 1-1/4" | 7" | 4-1/4" |
| 1-1/2" | 7-1/4" | 4-1/4" |
| 2" | 7-5/8" | 5-5/8" |
| 2-1/2" | 9-5/32" | 6-3/4" |
| 3" | 9-11/32" | 7-3/4" |
| 4" | 11-1/2" | 9-1/2" ² |
| 6" | 12" | 12-1/4" ² |

Note: 'A' dimension represents a complete coupling length with a female spud 'B' dimension is the largest dimension over the wing nut

¹ 1/4" coupling has a hex style nut

² 4" and 6" couplings have a 3 wing nut design

Boss Ground Joint Stems

| Hose Shank x NPT | Plated Steel and/or Iron Part # | Optional Qty | 316 Stainless Steel Part # | Brass Part # |
|------------------|---------------------------------|--------------|----------------------------|--------------|
| 1/4" | GBA | 100 | --- | --- |
| 3/8" | GCA | 100 | --- | --- |
| 1/2" | GB1 | 100 | --- | --- |
| 1/2" x 3/4" | GB6-1 | 50 | --- | --- |
| 3/4" | GB6 | 50 | RGB6 | BGB6 |
| 1" | GB11 | 50 | RGB11 | BGB11 |
| 1-1/4" | GB16 | 25 | RGB16 | --- |
| 1-1/2" | GB21 | 25 | RGB21 | --- |
| 2" | GB26 ² | 10 | RGB26 ¹ | --- |
| 2-1/2" | GB31 | 5 | --- | --- |
| 3" | GB36 ² | 5 | --- | --- |
| 4" | GB46 | 5 | --- | --- |
| 6" | GB66 | 2 | --- | --- |



Plated iron/steel



316 stainless steel



Brass

¹ Not to be used with #250, #275, or #306 Boss clamps

² GB26/GB36 have machined shank to accept Boss clamps, King Crimp® sleeves, ferrules. Use only Boss clamps on GB26/GB36 for steam service.

Only use the crimp style shanks with the crimp style sleeves and ferrules.

Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturers' products with Dixon® products. Pressure rating is based on the seal of the mating part. Reference dixonvalve.com for a complete list of ratings.

The King Crimp sleeve and ferrule are not intended for steam service.



Boss Wing Nuts

| Size | Plated Steel and/or Iron Part # | Optional Qty | 316 Stainless Steel Part # | Brass Part # |
|--------|---------------------------------|--------------|----------------------------|--------------|
| 1/4" | SLS4 | 100 | --- | --- |
| 3/8" | CB | 100 | --- | --- |
| 1/2" | B2 | 100 | --- | --- |
| 3/4" | B12 | 25 | RB12 | BB12 |
| 1" | B12 | 25 | RB12 | BB12 |
| 1-1/4" | B17 | 25 | RB17 | --- |
| 1-1/2" | B17 | 25 | RB17 | --- |
| 2" | B27 | 10 | RB27 | --- |
| 2-1/2" | B32 | 5 | --- | --- |
| 3" | B37 | 5 | --- | --- |
| 4" | B47 | 5 | --- | --- |
| 6" | B67 | 2 | --- | --- |



Plated iron/steel



316 stainless steel



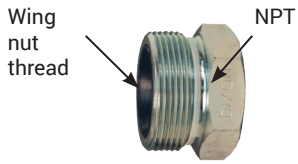
Brass

Boss Knurled Nut

| Size | Plated Steel Part # | Optional Qty |
|-------------|---------------------|--------------|
| 3/4" and 1" | KB12 | 25 |



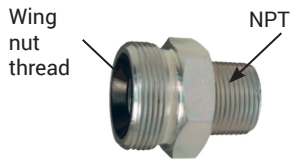
Boss Ground Joint Female Spuds



| Size | Plated Steel and/or Iron Part # | Optional Qty | 316 Stainless Steel Part # | Brass Part # |
|--------|---------------------------------|--------------|----------------------------|--------------|
| 1/4" | GBC ¹ | 100 | --- | --- |
| 3/8" | GCC ¹ | 100 | --- | --- |
| 1/2" | GB3 | 100 | --- | --- |
| 3/4" | GB8 | 50 | RGB8 | BGB8 |
| 1" | GB13 | 50 | RGB13 | BGB13 |
| 1-1/4" | GB18 | 25 | RGB18 | --- |
| 1-1/2" | GB23 | 25 | RGB23 | --- |
| 2" | GB28 | 10 | RGB28 | --- |
| 2-1/2" | GB33 | 5 | --- | --- |
| 3" | GB38 | 5 | --- | --- |
| 4" | GB48 | 5 | --- | --- |
| 6" | GB68 ¹ | 2 | --- | --- |

¹ 1/4", 3/8", and 6" available only with copper seat spuds; all other sizes have polymer seats

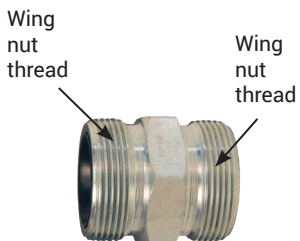
Boss Ground Joint Male Spuds



| Size | Plated Steel Part # | Plated Iron Part # |
|--------|---------------------|--------------------|
| 3/8" | GMC ¹ | --- |
| 1/2" | GM3 | --- |
| 3/4" | GM8 | --- |
| 1" | GM13 | --- |
| 1-1/4" | --- | GM18 |
| 1-1/2" | --- | GM23 |
| 2" | --- | GM28 |
| 2-1/2" | --- | GM33 |
| 3" | --- | GM38 |

¹ 1/4", 3/8", and 6" available only with copper seat spuds, all other sizes have polymer seats

Boss Ground Joint Double Spuds

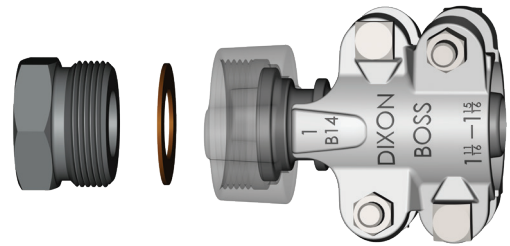


| Size | Plated Steel Part # | Plated Iron Part # |
|-------------------|---------------------|--------------------|
| 1/2" | GDB3 | --- |
| 3/4" and 1" | GDB13 | --- |
| 1-1/4" and 1-1/2" | --- | GDB23 |
| 2" | --- | GDB28 |
| 2-1/2" | --- | GDB33 |
| 3" | --- | GDB38 |

Washer Type

Features

- Easy to seal
- Klingersil® C-4401 washer is inserted between the stem and spud
- Leakproof seal forms by rotating the wing nut and hammering it tight
- Use with Boss clamps found on pages 26 and 27
- Use with wing nuts found on page 16

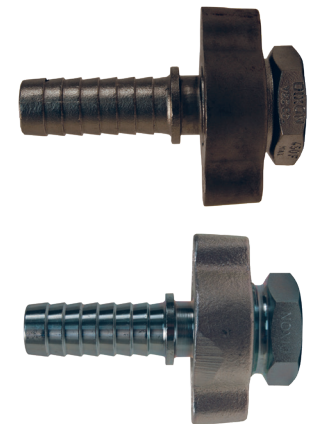


Specification

- Recommended for steam service up to 450°F (232°C)

Boss Washer Seal Couplings with Female Spud

| Hose Shank x NPT | Plated Steel and/or Iron Part # | 316 Stainless Steel Part # |
|------------------|---------------------------------|----------------------------|
| 3/8" | WF3 | --- |
| 1/2" | WF6 | --- |
| 1/2" x 3/4" | WF26-1 | --- |
| 3/4" | WF26 | RWF26 |
| 1" | WF36 | RWF36 |
| 1-1/4" | WF51 | RWF51 |
| 1-1/2" | WF61 | RWF61 |
| 2" | WF81 ¹ | RWF81 ¹ |
| 2-1/2" | WF96 | --- |
| 3" | WF111 | --- |

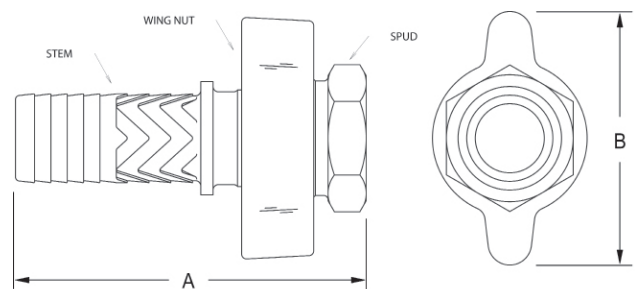


¹ Not to be used with #250, #275, or #306 Boss clamps



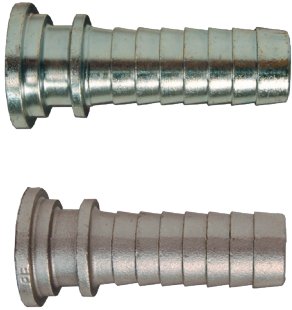
Dimensions

| Size | A | B |
|--------|----------|---------|
| 3/8" | 2-25/32" | 1-3/4" |
| 1/2" | 3-7/16" | 2-3/8" |
| 3/4" | 4-25/32" | 3-9/16" |
| 1" | 4-31/32" | 3-9/16" |
| 1-1/4" | 6-21/32" | 4-1/4" |
| 1-1/2" | 6-7/8" | 4-1/4" |
| 2" | 7-15/32" | 5-5/8" |
| 2-1/2" | 8-25/32" | 6-3/4" |
| 3" | 9-7/16" | 7-3/4" |



NOTE: 'A' dimension represents a complete coupling length with a female spud
 'B' dimension is the largest dimension over the wing nut

Boss Washer Seal Stems



| Hose Shank x NPT | Plated Steel and/or Iron Part # | Opt Qty | 316 Stainless Steel Part # |
|------------------|---------------------------------|---------|----------------------------|
| 3/8" | SS337 | 100 | --- |
| 1/2" | B1 | 100 | --- |
| 1/2" x 3/4" | B6-1 | 50 | --- |
| 3/4" | B6 | 50 | RB6 |
| 1" | B11 | 50 | RB11 |
| 1-1/4" | B16 | 25 | RB16 |
| 1-1/2" | B21 | 25 | RB21 |
| 2" | B26 ¹ | 10 | RB26 ¹ |
| 2-1/2" | B31 | 5 | --- |
| 3" | B36 | 5 | --- |

¹ Not to be used with #250, #275, or #306 Boss clamps



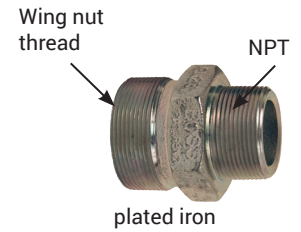
Boss Washer Seal Female Spuds



| Thread Size | Plated Steel and/or Iron Part # | Opt Qty | 316 Stainless Steel Part # |
|-------------|---------------------------------|---------|----------------------------|
| 3/8" | CC | 100 | --- |
| 1/2" | B3 | 100 | --- |
| 3/4" | B8 | 25 | RB8 |
| 1" | B13 | 50 | RB13 |
| 1-1/4" | B18 | 25 | RB18 |
| 1-1/2" | B23 | 25 | RB23 |
| 2" | B28 | 10 | RB28 |
| 2-1/2" | B33 | 5 | --- |
| 3" | B38 | 5 | --- |

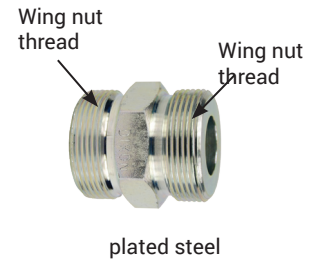
Boss Washer Seal Male Spuds

| Thread | Plated Steel Part # | Plated Iron Part # |
|--------|---------------------|--------------------|
| 3/8" | WMC | --- |
| 1/2" | WM3 | --- |
| 3/4" | WM8 | --- |
| 1" | WM13 | --- |
| 1-1/4" | --- | WM18 |
| 1-1/2" | --- | WM23 |
| 2" | --- | WM28 |
| 3" | --- | WM38 |



Boss Washer Seal Double Spuds

| Thread | Plated Steel Part # | Plated Iron Part # |
|--------|---------------------|--------------------|
| 3/8" | --- | --- |
| 1/2" | DB3 | --- |
| 3/4" | DB13 | --- |
| 1" | DB13 | --- |
| 1-1/4" | --- | DB23 |
| 1-1/2" | --- | DB23 |
| 2" | --- | DB28 |
| 3" | --- | DB38 |



Boss Washer Seal Washers

| Size | Nitrile Rubber Bonded, Non-Asbestos Klingersil® C-4401 Part # |
|--------|---|
| 3/8" | WBC |
| 1/2" | W2 |
| 3/4" | W12 |
| 1" | W12 |
| 1-1/4" | W17 |
| 1-1/2" | W17 |
| 2" | W27 |
| 2-1/2" | W32 |
| 3" | W37 |

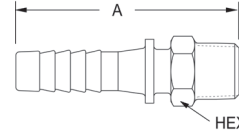


Male Stems

Features

- Use with Boss® clamps on pages 26 and 27
- Hex dimension is the distance across the flats

- Recommended for steam service up to **450°F (232°C)**



| Hose x NPT Size | Dimensions | | Plated Steel Bar Stock Part # |
|-----------------|------------|--------|-------------------------------|
| | A | Hex | |
| 1/4" x 1/8" | 2-1/4" | 9/16" | MS4X2 |
| 1/4" x 1/4" | 2-3/8" | 9/16" | MSA |
| 1/4" x 3/8" | 2-7/16" | 11/16" | MSB |
| 3/8" x 1/4" | 2-5/8" | 11/16" | MS6X4 |
| 3/8" x 3/8" | 2-11/16" | 11/16" | MSC |
| 3/8" x 1/2" | 2-15/16" | 7/8" | MS6X8 |
| 1/2" x 1/4" | 3" | 13/16" | MS8X4 |
| 1/2" x 3/8" | 3" | 7/8" | MS8X6 |
| 1/2" x 1/2" | 3-3/16" | 7/8" | MS1 |
| 1/2" x 3/4" | 3-3/16" | 1-1/8" | MS8X12 |
| 3/4" x 1/2" | 4-3/32" | 1-1/8" | MS12X8 |
| 3/4" x 3/4" | 4-3/32" | 1-1/8" | MS6 |
| 3/4" x 1" | 4-11/32" | 1-3/8" | MS12X16 |
| 1" x 3/4" | 4-13/32" | 1-3/8" | MS16X12 |
| 1" x 1" | 4-19/32" | 1-3/8" | MS11 |

Features

- Castings
- Use with Boss clamps on pages 26 and 27
- Hex dimension is the distance across the flats

Specification

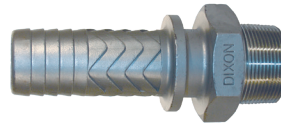
- Recommended for steam service up to **450°F (232°C)**



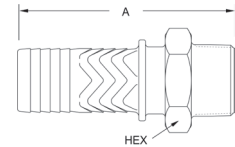
plated iron



brass



316 stainless



| Hose x NPT Size | Dimensions | | Plated Iron Part # | Brass Part # | 316 Stainless Part # |
|-----------------|------------|---------|--------------------|--------------|----------------------|
| | A | Hex | | | |
| 1/2" | 3-1/4" | 7/8" | --- | --- | RMS1 |
| 3/4" | 4-5/32" | 1-1/8" | --- | BMS6 | RMS6 |
| 1" | 4-21/32" | 1-3/8" | --- | BMS11 | RMS11 |
| 1-1/4" | 6-1/32" | 2-1/8" | MS16 | BMS16 | RMS16 |
| 1-1/2" | 6-5/16" | 2-7/16" | MS21 | BMS21 | RMS21 |
| 2" | 6-7/8" | 2-7/8" | MS26 | BMS26 | RMS26 |
| 2-1/2" | 8-5/8" | 3-5/8" | MS31 | --- | RMS31 |
| 3" | 9-1/2" | 4-1/8" | MS36 | BMS36 | RLP36 ¹ |
| 4" | 11" | 5" | MS46 | --- | RLP46 ¹ |

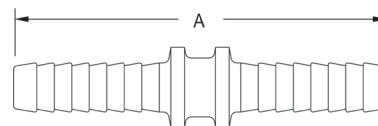
¹ Schedule 40 stainless steel

Hose Menders

Features

- Collars engage grip fingers of Boss clamps

- 1/2" plated steel, 3/4" - 3": plated iron



| Size | Dimension A | Part # | Size | Dimension A | Part # |
|--------|-------------|--------|--------|-------------|--------|
| 1/2" | 4" | M1 | 1-1/2" | 8-3/8" | M21 |
| 3/4" | 6" | M6 | 2" | 9-1/16" | M26 |
| 1" | 6-13/16" | M11 | 2-1/2" | 10-1/2" | M31 |
| 1-1/4" | 7-7/8" | M16 | 3" | 11-7/8" | M36 |

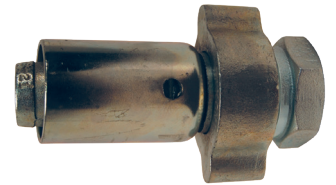
Applications

- Designed for air and liquid applications where a permanent, low profile clamping system is desired
- Not for steam service

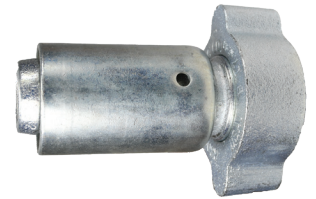
Features

- Supplied with carbon steel ferrules
- Consult Dixon® for swage and/or crimp specifications

| Size | Hose O.D. | | Plated Iron/Steel Part # | Plated Iron/Steel Part # ² | Stainless Steel Part # |
|--------|-----------|----------|--------------------------|---------------------------------------|------------------------|
| | From | To | | | |
| 3/4" | 1-10/64" | 1-14/64" | GF26P1 | GB6-P1 | --- |
| | 1-15/64" | 1-18/64" | GF26P2 | GB6-P2 | --- |
| | 1-19/64" | 1-22/64" | GF26P3 | GB6-P3 | --- |
| 1" | 1-30/64" | 1-34/64" | GF36P1 | GB11-P1 | --- |
| | 1-35/64" | 1-38/64" | GF36P2 | GB11-P2 | --- |
| | 1-39/64" | 1-42/64" | GF36P3 | GB11-P3 | --- |
| 1-1/2" | 1-58/64" | 2" | GF61P1 | GB21-P1 | RGF61P1 |
| | 2-1/64" | 2-8/64" | GF61P2 | GB21-P2 | RGF61P2 |
| | 2-9/64" | 2-16/64" | GF61P3 | GB21-P3 | --- |
| 2" | 2-28/64" | 2-40/64" | GF81P1 ¹ | GB26-P1 | RGF81P1 |
| | 2-41/64" | 2-48/64" | GF81P2 ¹ | GB26-P2 | RGF81P2 |
| | 2-49/64" | 2-56/64" | GF81P3 ¹ | GB26-P3 | --- |
| 3" | 3-30/64" | 3-40/64" | GF111P1 ¹ | GB36-P1 | --- |
| | 3-41/64" | 3-48/64" | GF111P2 ¹ | GB36-P2 | --- |
| | 3-49/64" | 3-56/64" | GF111P3 ¹ | GB36-P3 | --- |



GF61P1



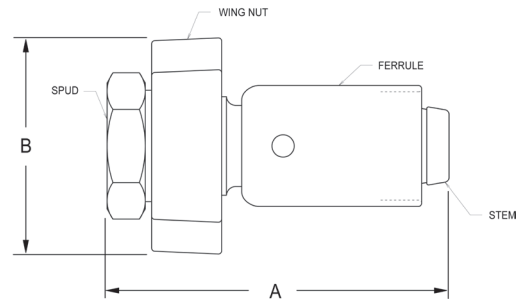
GB21-P1

¹ 2" and 3" have a machined shank

² Without spuds

Dimensions

| Size | A | B |
|--------|----------|---------|
| 3/4" | 4-3/4" | 3-9/16" |
| 1" | 5-1/8" | 3-9/16" |
| 1-1/2" | 7-1/16" | 4-3/8" |
| 2" | 7-7/16" | 5-5/8" |
| 3" | 8-13/16" | 7-3/4" |



NOTE: 'A' dimension represents a complete coupling length with a female spud.
 'B' dimension is the largest dimension over the wing nut.

Adapters

Male NPT

Features

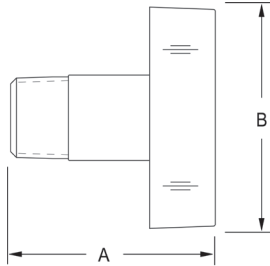
- Plated steel and/or iron
- Designed to fit the standard ground joint spuds on pages 17, 19, and 20
- Supplied with a wing nut, as shown
- For safety tags and safety tape, see page 55



| Size | Plated Steel and/or Iron Part # | 316 Stainless Steel Part # |
|--------|---------------------------------|----------------------------|
| 3/4" | GMAS6 | RGMAS6 |
| 1" | GMAS11 | --- |
| 1-1/4" | GMAS16 | --- |
| 1-1/2" | GMAS21 | --- |
| 2" | GMAS26 ¹ | --- |
| 3" | GMAS36 | --- |

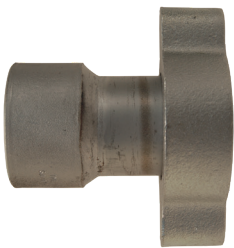
¹ Uses a special wing nut, part # B27-1

Dimensions



| Size | A | B |
|--------|---------|---------|
| 3/4" | 3-1/16" | 3-9/16" |
| 1" | 3-5/16" | 3-9/16" |
| 1-1/4" | 4" | 4-1/4" |
| 1-1/2" | 4-1/8" | 4-1/4" |
| 2" | 4-5/16" | 5-5/8" |

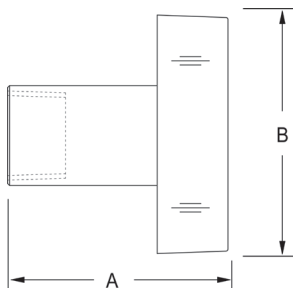
Female NPT



| Size | Part # |
|--------|---------------------|
| 3/4" | GFAS6 |
| 1" | GFAS11 |
| 1-1/4" | GFAS16 |
| 1-1/2" | GFAS21 ¹ |
| 2" | GFAS26 |
| 3" | GFAS36 |

¹ Part is produced as a welded fabrication

Dimensions



| Size | A | B |
|--------|----------|---------|
| 3/4" | 3-1/8" | 3-9/16" |
| 1" | 3-5/16" | 3-9/16" |
| 1-1/4" | 4" | 4-1/4" |
| 1-1/2" | 3-25/32" | 4-1/4" |
| 2" | 5" | 5-5/8" |

Wing Nut Caps

Features

- Plated steel and/or iron
- Supplied with 12" chain and washer
- For best results, use with washer style spuds and washers on page 16
- Boss® wing nut caps are not intended for pressure applications.



| Size | Part # |
|-------------------|--------|
| 3/4" and 1" | B12SC |
| 1-1/4" and 1-1/2" | B17SC |
| 2" | B27SC |
| 3" | B37SC |



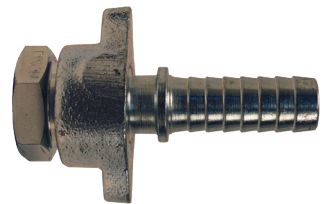
Ground Joint Air Hammer Couplings

Features

- Rounded steel head of stem fits concave inserts in spuds for superior sealing
- Metal-to-metal copper seat seal
- Use with Boss clamps on pages 26 and 27

Female Spuds

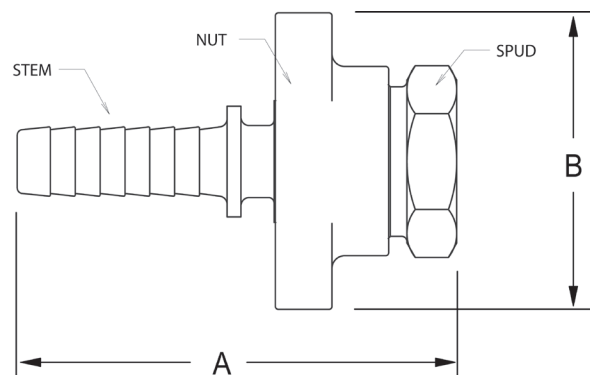
| Style | NPT Size | Plated Steel/Iron Part # |
|------------|----------|--------------------------|
| Compact | 1/2" | GDF6 |
| | 3/4" | GDF8 |
| Heavy duty | 3/4" | GDF10 |
| | 1" | GDF12 |



Dimensions

| Style | Size | A | B |
|---------|------|----------|----------|
| Compact | 1/2" | 4-5/32" | 2-15/16" |
| | 3/4" | 4-15/16" | 2-15/16" |
| Heavy | 3/4" | 5" | 3-5/8" |
| | 1" | 5-13/32" | 3-5/8" |

NOTE: 'A' dimension represents a complete coupling length with a female spud
 'B' dimension is the largest dimension over the wing nut



Stems

| Style | Hose I.D. | Plated Steel Part # |
|------------|-----------|---------------------|
| Compact | 1/2" | GBA45 |
| | 3/4" | GBA46 |
| Heavy duty | 3/4" | GBB18 |
| | 1" | GBB11 |



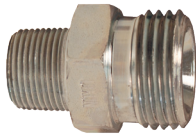
Ground Joint Air Hammer Couplings

Female Spuds



| Style | NPT Size | Coarse Nut Thread | Plated Steel w/ Copper seat Part # |
|------------|----------|-----------------------|------------------------------------|
| Compact | 1/2" | 1-31/64" O.D. x 8 TPI | GJ65 |
| | 3/4" | | GJ55 |
| Heavy duty | 3/4" | 1-47/64" O.D. x 8 TPI | GDL8 |
| | 1" | | GDL13 |

Male Spuds



| Style | Hose I.D. and NPT Sizes | Coarse Nut Thread | Plated Steel w/ Copper seat Part # |
|------------|-------------------------|-----------------------|------------------------------------|
| Compact | 1/2" | 1-31/64" O.D. x 8 TPI | GJ60 |
| | 3/4" | | GJ50 |
| Heavy duty | 3/4" | 1-47/64" O.D. x 8 TPI | GDL7 |
| | 1" | | GDL10 |

Double Spuds



| Style | Hose I.D. and NPT Sizes | Coarse Nut Thread | Plated Steel w/ Copper seat Part # |
|------------|-------------------------|-----------------------|------------------------------------|
| Compact | 1/2" | 1-31/64" O.D. x 8 TPI | GJ75 |
| | 3/4" | | GJ75 |
| Heavy duty | 3/4" | 1-47/64" O.D. x 8 TPI | GDL25 |
| | 1" | | GDL25 |

Boss Clamps

⚠ WARNING

- The bolts used in the Boss interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length, and material hardness. These bolts can be retorqued, but it is not recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon® recommends using only factory-supplied replacement bolts.
- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance. Do not lubricate nuts and bolts.
- For all bolt tightening sequences, please visit dixonvalve.com

Feature

- Replacement nuts and bolts are available; contact Dixon for more information

Specifications

- Recommended for steam service up to 450°F (232°C)
- Recommended torque rating in ft. lbs.

2-Bolt Type, 2-Gripping Fingers

| Hose I.D. | Hose O.D. | | Zinc Plated Iron Part # | Pkg Qty | Stainless Steel ⁴ Part # | Torque ft. lbs. ² | Brass Part # | Torque ft. lbs. |
|-----------|-----------|----------|-------------------------|---------|-------------------------------------|------------------------------|--------------|-----------------|
| | from | to | | | | | | |
| 1/4" | 36/64" | 42/64" | BD ³ | 100 | --- | 6 | --- | --- |
| 3/8" | 44/64" | 56/64" | CD ³ | 100 | --- | 6 | --- | --- |
| | 52/64" | 60/64" | DD ³ | 100 | --- | 6 | --- | --- |
| 1/2" | 60/64" | 1-4/64" | B4 ³ | 25 | RB4 | 12 | BB4 | 10 |
| | 1-4/64" | 1-12/64" | B5 | 25 | --- | 12 | --- | --- |
| 3/4" | 1-10/64" | 1-20/64" | BU9 ³ | 50 | RBU9 | 21 | BBU9 | 18 |
| | 1-20/64" | 1-32/64" | B9 | 25 | RB9 | 21 | --- | --- |
| | 1-32/64" | 1-44/64" | B10 ³ | 25 | --- | 21 | --- | --- |



4-Bolt Type, 2-Gripping Fingers

| Hose I.D. | Hose O.D. | | Zinc Plated Iron Part # | Pkg Qty | Stainless Steel ⁴ Part # | Torque ft. lbs. ² | Brass Part # | Torque ft. lbs. |
|-----------|-----------|----------|-------------------------|---------|-------------------------------------|------------------------------|--------------------|-----------------|
| | from | to | | | | | | |
| 1" | 1-34/64" | 1-46/64" | BU14 | 25 | RBU14 | 21 | BBU14 | 18 |
| | 1-44/64" | 1-60/64" | B14 | 25 | RB14 | 21 | --- | --- |
| | 1-60/64" | 2-8/64" | B15 | 20 | --- | 21 | --- | --- |
| 1-1/4" | 1-32/64" | 1-50/64" | BU18 | 20 | --- | 40 | --- | --- |
| | 1-50/64" | 2-6/64" | BU19 | 10 | --- | 40 | --- | --- |
| | 2-8/64" | 2-24/64" | B19 | 10 | RB19 | 40 | --- | --- |
| 1-1/2" | 1-52/64" | 2" | BU22 | 10 | --- | 40 | --- | --- |
| | 2" | 2-14/64" | B22 | 10 | --- | 40 | --- | --- |
| | 2-12/64" | 2-24/64" | BU24 | 10 | RBU24 | 40 | --- | --- |
| 2" | 2-24/64" | 2-36/64" | B24 | 10 | RB24 | 40 | --- | --- |
| | 2-36/64" | 2-48/64" | B25 | 10 | --- | 40 | --- | --- |
| | 2-22/64" | 2-34/64" | BU28 | 9 | --- | 60 | --- | --- |
| 2-1/2" | 2-32/64" | 2-50/64" | BU29 | 10 | RBU29 | 60 | BBU29 ¹ | 40 |
| | 2-48/64" | 3-4/64" | B29 | 10 | RB29 | 60 | --- | --- |
| | 3-6/64" | 3-28/64" | B30 | 5 | --- | 60 | --- | --- |
| 3" | 3-6/64" | 3-28/64" | BU34 | 5 | --- | 60 | --- | --- |
| | 3-32/64" | 3-60/64" | B34 | 5 | --- | 150 | --- | --- |
| | 3-32/64" | 3-60/64" | BU35 | 5 | RBU35 | 150 | --- | --- |
| 3" | 3-52/64" | 4-4/64" | B35 | 5 | --- | 150 | --- | --- |
| | 4-4/64" | 4-28/64" | B39 | 5 | --- | 200 | --- | --- |



¹ Will become obsolete as inventory is depleted

² Torque applies to plated iron and stainless steel clamps

³ Global investment cast carbon steel (top table)

⁴ When installing stainless steel bolts and nuts, the use of anti-seize or anti-galling lubricant is advised. A light coat is required on the bolt threads to prevent thread galling and artificial torque reading.

Boss Clamps

⚠ WARNING

The bolts used in the Boss interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length, and material hardness. These bolts can be retorqued, but it is recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon® recommends using only factory supplied replacement bolts.

Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance. *Do not lubricate nuts and bolts.*

For all bolt tightening sequences, please visit dixonvalve.com

Replacement nuts and bolts are available; contact Dixon for more information

Recommended for steam service up to Recommended torque rating in ft. lbs.

4-Bolt Type, 4-Gripping Fingers



| Hose I.D. | Hose O.D. | | Zinc Plated Iron Part # | Optional Qty | Torque ft. lbs. |
|-----------|-----------|----------|-------------------------|--------------|-----------------|
| | from | to | | | |
| 1/2" | 58/64" | 1-2/64" | 968 | 50 | 6 |
| 1" | 1-26/64" | 1-36/64" | 156 | 20 | 21 |
| 1-1/4" | 1-44/64" | 1-56/64" | 187 | 10 | 21 |
| | 1-56/64" | 2-4/64" | 206 | 20 | 21 |
| 1-1/2" | 2" | 2-8/64" | 212 | 10 | 21 |
| | 2-4/64" | 2-16/64" | 225 | 10 | 40 |
| 2" | 2-16/64" | 2-32/64" | 250 ¹ | 10 | 40 |
| | 2-32/64" | 2-48/64" | 275 ¹ | 10 | 40 |
| | 2-48/64" | 3-4/64" | 306 ¹ | 5 | 60 |
| 2-1/2" | 3-4/64" | 3-32/64" | 350 | 5 | 60 |
| | 3-32/64" | 3-48/64" | 375 | 5 | 60 |
| 3" | 3-48/64" | 4" | 401 | 5 | 150 |
| | 4" | 4-12/64" | 418 | 2 | 200 |
| | 4-12/64" | 4-32/64" | 450 | 2 | 200 |

¹ Not to be used with GF81, GB26, WF81, B26, RGF81, RGB26, BGF81, RWF81, RB26

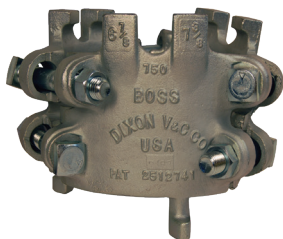


6-Bolt Type, 3-Gripping Fingers



| Hose I.D. | Hose O.D. | | Zinc Plated Iron Part # | Optional Qty | Torque ft. lbs. |
|-----------|-----------|----------|-------------------------|--------------|-----------------|
| | from | to | | | |
| 3" | 4-16/64" | 4-52/64" | BS39 | 2 | 150 |
| | 4-40/64" | 5" | B45 | 3 | 150 |
| 4" | 4-56/64" | 5-16/64" | BS49 | 2 | 200 |
| | 5-16/64" | 5-38/64" | BU49 | 2 | 200 |
| | 5-34/64" | 5-60/64" | B49 | 2 | 200 |

6 Bolt Type, 6 Gripping Fingers



| Hose I.D. | Hose O.D. | | Zinc Plated Iron Part # | Optional Qty | Torque ft. lbs. |
|-----------|-----------|----------|-------------------------|--------------|-----------------|
| | from | to | | | |
| 6" | 6-56/64" | 7-24/64" | 750 | 1 | 200 |
| | 7-32/64" | 8" | 850 | 1 | 200 |

Dix-Lock N-Series Quick Acting Couplings

Features

- Dual-guide sleeve tabs ensure smooth action
 - Corrosion resistant coatings and materials improve performance
 - Pneumatically energized seal for optimal performance at a variety of pressures
 - Wide variety of end configurations
 - Connecting: convenient push-twist and click
 - Disconnecting: retract sleeve, twist and pull
- Never attempt to disconnect any hose while pressure is in the line.



Materials

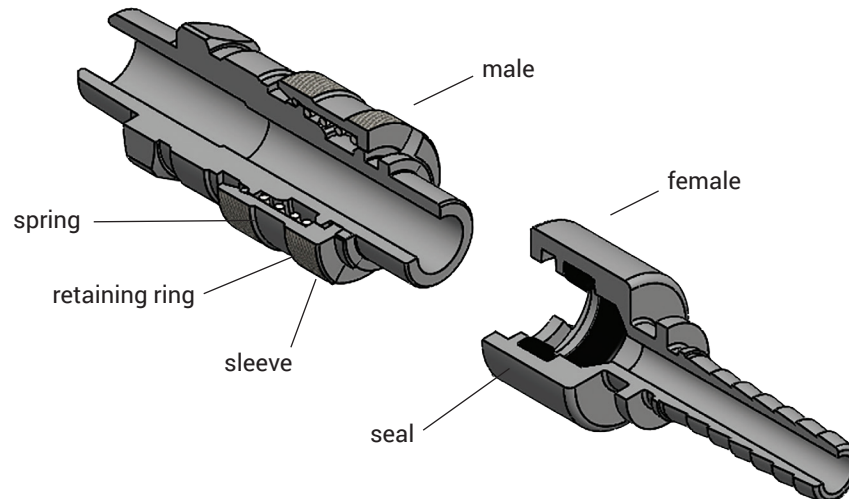
- Female and male bodies: Trivalent Chrome plated steel
optional - brass or 303 stainless steel
- Sleeve: zinc die cast
optional - brass or 303 stainless steel
- Retaining ring and spring: stainless steel
- Seal: nitrile rubber
optional - FKM

Specifications

- Pressure: **300 PSI** in brass; **500 PSI** in steel, 303 stainless steel at ambient temperature **70°F (21°C)**
- The operating temperature range is **-40°F to 250°F (-40°C to 121°C)**.

Interchange

- Interchanges with MIL-C-3486 and A-A-50431A standards
- Interchanges with Bowes 51000-Series and National Series-B



Dix-Lock N-Series Bowes Interchange Plug Standard Hose Barbs



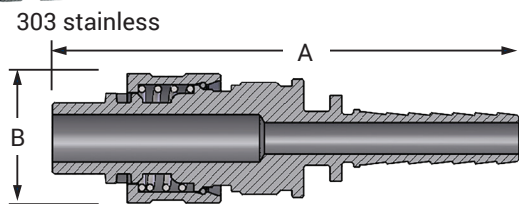
brass



steel



303 stainless



| Body Size | Hose I.D. | Brass | | Steel | | 303 Stainless Steel | |
|-----------|-----------|-----------------|--------|-----------------|--------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 3/8" | 1/2" | --- | --- | QM1 | N3CS4 | --- | --- |
| | 3/8" | QB2 | N4S3-B | QM2 | N4S3 | --- | --- |
| 1/2" | 1/2" | QB3 | N4S4-B | QM3 | N4S4 | --- | --- |
| | 3/4" | QB4 | N4S6-B | QM4 | N4S6 | QSS4 | N4S6-S |
| | 1" | QB5 | N4S8-B | QM5 | N4S8 | --- | N4S8-S |

Dimensions

| Body Size | Hose Shank | A | B |
|-----------|------------|------|------|
| 3/8" | 1/2" | 4.74 | 0.99 |
| | 3/8" | 4.54 | 1.37 |
| 1/2" | 1/2" | 4.95 | 1.37 |
| | 3/4" | 4.95 | 1.37 |
| | 1" | 5.77 | 1.37 |

Dix-Lock N-Series Bowes Interchange Coupler Standard Hose Barbs



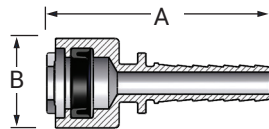
brass



steel



303 stainless



| Body Size | Hose I.D. | Brass | | Steel | | 303 Stainless Steel | |
|-----------|-----------|-----------------|--------|-----------------|--------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 3/8" | 1/2" | --- | --- | QM20 | 3NCS4 | --- | --- |
| | 3/8" | QB21 | 4NS3-B | QM21 | 4NS3 | --- | --- |
| 1/2" | 1/2" | QB22 | 4NS4-B | QM22 | 4NS4 | --- | --- |
| | 3/4" | QB23 | 4NS6-B | QM23 | 4NS6 | QSS23 | 4NS6-S |
| | 1" | QB25 | 4NS8-B | QM25 | 4NS8 | --- | 4NS8-S |

Dimensions

| Body Size | Hose Shank | A | B |
|-----------|------------|------|------|
| 3/8" | 1/2" | 3.40 | 0.97 |
| | 3/8" | 2.97 | 1.35 |
| 1/2" | 1/2" | 3.39 | 1.35 |
| | 3/4" | 3.39 | 1.35 |
| | 1" | 4.20 | 1.35 |

Dix-Lock N-Series Bowes Interchange Plug Male Thread



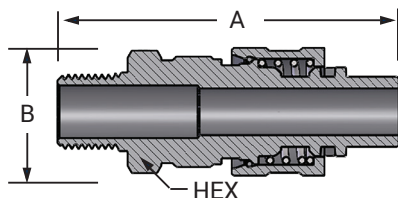
brass



steel



303 stainless



| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel | |
|------------|----------------|-----------------|---------|-----------------|--------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 3/8" | 1/2"-14 NPTF | --- | --- | QM40 | N3M4 | --- | --- |
| | 1/2"-14 BSPT | --- | --- | --- | N3BM4 | --- | --- |
| | 3/8"-18 NPTF | QB41 | N4M3-B | QM41 | N4M3 | --- | --- |
| | 3/8"-19 BSPT | --- | --- | --- | N4BM3 | --- | --- |
| 1/2" | 1/2"-14 NPTF | QB42 | N4M4-B | QM42 | N4M4 | --- | --- |
| | 1/2"-14 BSPT | --- | N4BM4-B | --- | N4BM4 | --- | --- |
| | 3/4"-14 NPTF | QB43 | N4M6-B | QM43 | N4M6 | QSS43 | N4M6-S |
| | 3/4"-14 BSPT | --- | N4BM6-B | --- | N4BM6 | --- | --- |
| | 1"-11-1/2 NPTF | QB45 | N4M8-B | QM45 | N4M8 | --- | --- |
| 1"-11 BSPT | --- | N4BM8-B | --- | N4BM8 | --- | --- | |

Dimensions

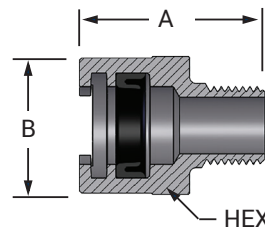
| Body Size | Threads | A | B | Hex |
|-----------|---------|------|------|---------|
| 3/8" | 1/2" | 3.36 | 0.99 | 1-3/16" |
| | 3/8" | 3.46 | 1.37 | 1-1/8" |
| 1/2" | 1/2" | 3.65 | 1.37 | 1-1/8" |
| | 3/4" | 3.65 | 1.37 | 1-1/8" |
| | 1" | 3.89 | 1.37 | 1-3/8" |

Dix-Lock N-Series Bowes Coupler Male Thread

| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel | |
|-----------|----------------|-----------------|---------|-----------------|--------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 3/8" | 1/2"-14 NPTF | --- | --- | QM60 | 3NM4 | --- | --- |
| | 1/2"-14 BSPT | --- | --- | --- | 3NBM4 | --- | --- |
| | 3/8"-18 NPTF | QB61 | 4NM3-B | QM61 | 4NM3 | --- | --- |
| 1/2" | 3/8"-19 BSPT | --- | --- | --- | 4NBM3 | --- | --- |
| | 1/2"-14 NPTF | QB62 | 4NM4-B | QM62 | 4NM4 | --- | --- |
| | 1/2"-14 BSPT | --- | 4NBM4-B | --- | 4NBM4 | --- | --- |
| | 3/4"-14 NPTF | QB63 | 4NM6-B | QM63 | 4NM6 | QSS63 | 4NM6-S |
| | 3/4"-14 BSPT | --- | 4NBM6-B | --- | 4NBM6 | --- | --- |
| | 1"-11-1/2 NPTF | QB65 | 4NM8-B | QM65 | 4NM8 | --- | --- |
| | 1"-11 BSPT | --- | 4NBM8-B | --- | 4NBM8 | --- | --- |

Dimensions

| Body Size | Threads | A | B | Hex |
|-----------|---------|------|------|---------|
| 3/8" | 1/2" | 1.80 | 1.10 | 1-3/16" |
| | 3/8" | 1.66 | 1.50 | 1-3/8" |
| 1/2" | 1/2" | 1.85 | 1.50 | 1-3/8" |
| | 3/4" | 1.85 | 1.50 | 1-3/8" |
| | 1" | 1.95 | 1.50 | 1-1/2" |



brass



steel



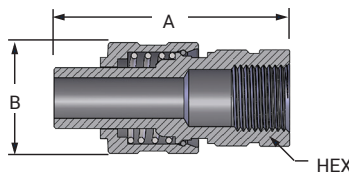
303 stainless

Dix-Lock N-Series Bowes Plug Female Thread

| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel | |
|------------|----------------|-----------------|---------|-----------------|--------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 3/8" | 3/8"-18 NPTF | QB81 | N4F3-B | QM81 | N4F3 | --- | --- |
| | 3/8"-19 BSPP | --- | --- | --- | N4BF3 | --- | --- |
| | 1/2"-14 NPTF | QB82 | N4F4-B | QM82 | N4F4 | --- | --- |
| 1/2" | 1/2"-14 BSPP | --- | N4BF4-B | --- | N4BF4 | --- | --- |
| | 3/4"-14 NPTF | QB83 | N4F6-B | QM83 | N4F6 | QSS83 | N4F6-S |
| | 3/4"-14 BSPP | --- | N4BF6-B | --- | N4BF6 | --- | --- |
| | 1"-11-1/2 NPTF | QB85 | N4F8-B | QM85 | N4F8 | --- | --- |
| 1"-11 BSPP | --- | N4BF8-B | --- | N4BF8 | --- | --- | |

Dimensions

| Body Size | Threads | A | B | Hex |
|-----------|---------|------|------|--------|
| 1/2" | 3/8" | 2.92 | 1.35 | 1-1/8" |
| | 1/2" | 2.92 | 1.35 | 1-1/8" |
| | 3/4" | 3.42 | 1.35 | 1-3/8" |
| | 1" | 3.59 | 1.35 | 1-1/2" |



brass



steel



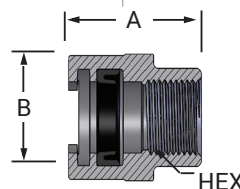
303 stainless

Dix-Lock N-Series Bowes Coupler Female Thread

| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel | |
|------------|----------------|-----------------|---------|-----------------|--------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 3/8" | 3/8"-18 NPTF | QB101 | 4NF3-B | QM101 | 4NF3 | --- | --- |
| | 3/8"-19 BSPP | --- | --- | --- | 4NBF3 | --- | --- |
| | 1/2"-14 NPTF | QB102 | 4NF4-B | QM102 | 4NF4 | --- | --- |
| 1/2" | 1/2"-14 BSPP | --- | 4NBF4-B | --- | 4NBF4 | --- | --- |
| | 3/4"-14 NPTF | QB103 | 4NF6-B | QM103 | 4NF6 | QSS103 | 4NF6-S |
| | 3/4"-14 BSPP | --- | 4NBF6-B | --- | 4NBF6 | --- | --- |
| | 1"-11-1/2 NPTF | QB105 | 4NF8-B | QM105 | 4NF8 | --- | --- |
| 1"-11 BSPP | --- | 4NBF8-B | --- | 4NBF8 | --- | --- | |

Dimensions

| Body Size | Threads | A | B | Hex |
|-----------|---------|------|------|--------|
| 1/2" | 3/8" | 1.71 | 1.50 | 1-3/8" |
| 1/2" | 1/2" | 1.71 | 1.50 | 1-3/8" |
| 1/2" | 3/4" | 1.71 | 1.50 | 1-3/8" |
| 1/2" | 1" | 1.86 | 1.79 | 1-1/2" |



brass



steel



303 stainless

Dix-Lock N-Series Bowes Interchange Safety-Lock Hose Barb Plugs



brass



steel



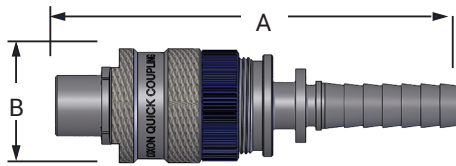
303 stainless

Feature

- Positive safety lock; with locking nut in place sleeve cannot be moved to open coupling



| Body Size | Hose I.D. | Brass | | Steel | | 303 Stainless Steel Part # |
|-----------|-----------|-----------------|-----------|-----------------|---------|----------------------------|
| | | Previous Part # | Part # | Previous Part # | Part # | |
| 1/2" | 1/2" | QB33 | N4S4-B-LS | QM33 | N4S4-LS | --- |
| | 3/4" | QB44 | N4S6-B-LS | QM44 | N4S6-LS | N4S6-S-LS |



Dimensions

| Body Size | Hose Shank | A | B |
|-----------|------------|------|------|
| 3/8" | 1/2" | 4.95 | 1.37 |
| 1/2" | 3/4" | 4.95 | 1.37 |

Dix-Lock N-Series Bowes Interchange Male Safety-Lock Plugs



brass



steel



303 stainless

Feature

- Positive safety lock; with locking nut in place sleeve cannot be moved to open coupling



| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel Part # |
|-----------|--------------|-----------------|-----------|-----------------|----------|----------------------------|
| | | Previous Part # | Part # | Previous Part # | Part # | |
| 1/2" | 1/2"-14 NPTF | QB66 | N4M4-B-LS | QM66 | N4M4-LS | --- |
| | 1/2"-14 BSPT | --- | --- | --- | N4BM4-LS | --- |
| | 3/4"-14 NPTF | QB88 | N4M6-B-LS | QM88 | N4M6-LS | N4M6-S-LS |
| | 3/4"-14 BSPT | --- | --- | --- | N4BM6-LS | --- |



Dimensions

| Body Size | Threads | A | B |
|-----------|---------|------|------|
| 3/4" | 1/2" | 3.65 | 1.37 |
| 1/2" | 3/4" | 3.65 | 1.37 |

| Body Size | Cap Lanyard | Brass | | Steel | |
|-----------|-------------|-----------------|--------|-----------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | steel cable | QBCAP | N4DC-B | QMCAP | N4DC |



Dix-Lock N-Series Bowes Interchange Converter

| Body Size | Configuration | Steel | |
|-----------|--------------------|-----------------|--------|
| | | Previous Part # | Part # |
| 1/2" | coupler to coupler | QM0 | 4N4N |



Dix-Lock N-Series Bowes Interchange Seals

| Body Size | Coupler Style | Nitrile | | FKM |
|-----------|---------------|-----------------|---------|-----------|
| | | Previous Part # | Part # | Part # |
| 3/8" | all | QBM1 | 3N-SKIT | --- |
| 1/2" | all | QBM2 | 4N-SKIT | F-4N-SKIT |



Features

- Working pressure: **300 PSI** at ambient temperature **70°F (21°C)**
- For crimp recommendations please visit dixonvalve.com
- Also available in stainless steel, contact Dixon® for further information

Materials

- Machined components are manufactured using solid steel, brass, or 303 stainless steel bar stock
- Stainless steel retaining ring and spring maximize corrosion resistance and extend service life
- Steel componentry is plated using ROHS Compliant Trivalent Chrome

Interchange Data

- Boves Interchange Bayonet Style
- Interchangeable with Boves 51000-Series, National Series 'B' and MacDonald Quick-Action

Seal Components

- Nitrile rubber pneumatically energized seals are standard, temperature range **-40°F to 250°F (-40°C to 121°C)**.

Dix-Lock N-Series Boves Interchange Coupling with Ferrule Male Head



| Body Size | Hose I.D. | Hose O.D. | | Plated Steel | | Brass | |
|-----------|-----------|-----------|----------|-----------------|---------|-----------------|-----------|
| | | From: | To: | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 1/2" | 5/16" | 1-2/64" | QM3WF | N4S4-WF | QB3WF | N4S4-B-WF |
| | 3/4" | 1-10/64" | 1-22/64" | QM4WF | N4S6-WF | QB4WF | N4S6-B-WF |

Dix-Lock N-Series Boves Interchange Coupling with Ferrule Female Head



| Body Size | Hose I.D. | Hose O.D. | | Plated Steel | | Brass | |
|-----------|-----------|-----------|----------|-----------------|---------|-----------------|-----------|
| | | From: | To: | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 1/2" | 5/16" | 1-2/64" | QM22WF | 4NS4-WF | QB22WF | 4NS4-B-WF |
| | 3/4" | 1-10/64" | 1-22/64" | QM23WF | 4NS6-WF | QB23WF | 4NS6-B-WF |


Dix-Lock N-Series Boves Interchange Coupling with Ferrule Male Locking Head



| Body Size | Hose I.D. | Hose O.D. | | Plated Steel | | Brass | |
|-----------|-----------|-----------|----------|-----------------|------------|-----------------|--------------|
| | | From: | To: | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 1/2" | 5/16" | 1-2/64" | QM33WF | N4S4-LS-WF | QB33WF | N4S4-B-LS-WF |
| | 3/4" | 1-10/64" | 1-22/64" | QM44WF | N4S6-LS-WF | QB44WF | N4S6-B-LS-WF |

Dual-Lock P-Series Quick Acting Couplings

Features

- Spring loaded interlocking engagement
- Full opening permits full flow to tool
- Optional locking key prevents sleeve retraction
- Trivalent chrome plated
- Connecting: push and twist
- Locking clip is available to prevent unintentional disconnection
- Disconnecting: pull and twist
- Never attempt to disconnect any hose while pressure is in the line 

Materials

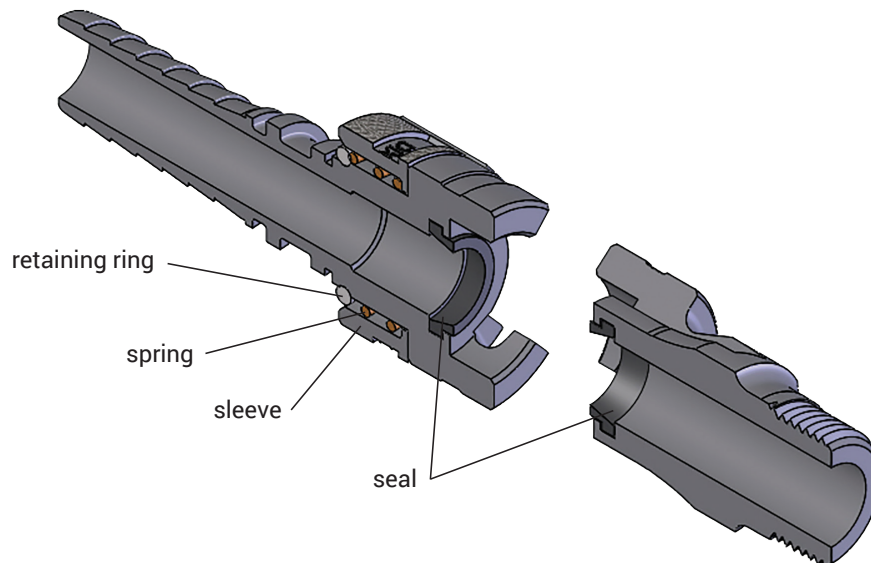
- Body: Trivalent Chrome plated steel
optional - brass or 303 stainless steel
- Sleeve: steel
optional - brass or 303 stainless steel
- Retaining ring and spring: phosphor bronze
- Seal: nitrile rubber
optional - FKM

Specifications

- The recommended working pressure: **300 PSI** at ambient temperature **70°F (21°C)**
- The operating temperature range is **-40°F to 250°F (-40°C to 121°C)**

Interchange

- Interchangeable with Thor PHC-Series and National Series-A

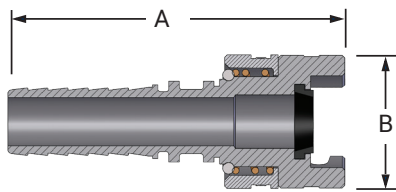


Dual-Lock P-Series Thor Interchange Coupler Hose Barb Couplers



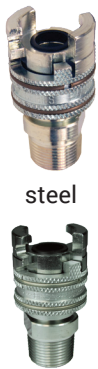
| Body Size | Hose I.D. | Brass | | Steel | | 303 Stainless Steel | |
|-----------|-----------|-----------------|--------|-----------------|---------------------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 3/8" | --- | --- | PHL6 | 4PS3 | --- | --- |
| | 1/2" | --- | 4PS4-B | PHL8 | 4PS4 | --- | --- |
| | 3/4" | PHLB12 | 4PS6-B | PHL12 | 4PS6 | PHL12SS | 4PS6-S |
| | 3/4" | --- | --- | --- | 4PS6-9 ¹ | --- | --- |
| | 1" | PHLB16 | 4PS8-B | PHL16 | 4PS8 | --- | --- |

¹ Steel/PTFE coating



Dimensions

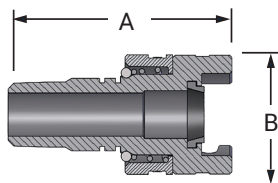
| Size | A | B |
|------|-------|-------|
| 3/8" | 3.53" | 1.55" |
| 1/2" | 3.95" | 1.55" |
| 3/4" | 3.95" | 1.55" |
| 1" | 6.06" | 1.55" |



Dual-Lock P-Series Thor Interchange Male Couplers

| Body Size | Threads | Steel | | 303 Stainless Steel | |
|-----------|--------------|-----------------|---------------------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 3/8"-18 NPTF | PML6 | 4PM3 | --- | --- |
| | 1/2"-14 NPTF | PML8 | 4PM4 | --- | --- |
| | 3/4"-14 NPTF | PML12 | 4PM6 | PML12SS | 4PM6-S |
| | 3/4"-14 NPTF | --- | 4PM6-9 ¹ | --- | --- |
| | 1"-11½ NPTF | --- | 4PM8 | --- | --- |

¹ Steel/PTFE coating



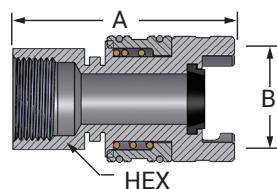
Dimensions

| Size | A | B |
|------|-------|-------|
| 1/2" | 2.93" | 1.55" |
| 3/4" | 2.98" | 1.55" |
| 1" | 2.98" | 1.55" |



Dual-Lock P-Series Thor Interchange Female Couplers

| Body Size | Threads | Brass Part # | Steel | | 303 Stainless Steel | |
|-----------|----------------|--------------|-----------------|--------|---------------------|--------|
| | | | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 1/2" - 14 NPTF | --- | PFL8 | 4PF4 | --- | --- |
| | 3/4" - 14 NPTF | 4PF6-B | PFL12 | 4PF6 | PFL12SS | 4PF6-S |



Dimensions

| Size | A | B | Hex |
|------|-------|-------|-------|
| 1/2" | 2.75" | 1.55" | 1.25" |
| 3/4" | 2.75" | 1.55" | 1.25" |

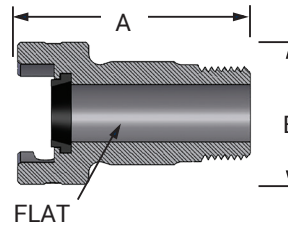
Dual-Lock P-Series Thor Interchange Male Plugs

| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel | |
|-----------|----------------|-----------------|--------|-----------------|---------------------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 3/8"-18 NPTF | --- | --- | PM6 | P4M3 | --- | --- |
| | 1/2"-14 NPTF | PMB8 | P4M4-B | PM8 | P4M4 | --- | --- |
| | 3/4"-14 NPTF | PMB12 | P4M6-B | PM12 | P4M6 | PM12SS | P4M6-S |
| | 3/4"-14 NPTF | --- | --- | --- | P4M6-9 ¹ | --- | --- |
| | 1"-11-1/2 NPTF | PMB16 | P4M8-B | PM16 | P4M8 | --- | --- |

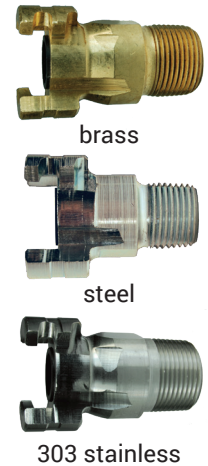
¹ Steel/PTFE coating

Dimensions

| Size | A | B | Flat |
|------|-------|-------|-------|
| 3/8" | 2.00" | 1.55" | 0.88" |
| 1/2" | 2.25" | 1.55" | 0.97" |
| 3/4" | 2.55" | 1.55" | 1.13" |
| 1" | 3.25" | 1.55" | 1.38" |



Must be used with couplers on page 28



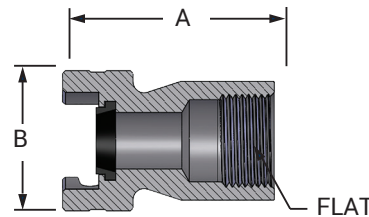
Dual-Lock P-Series Thor Interchange Female Plugs

| Body Size | Threads | Brass | | Steel | | 303 Stainless Steel | |
|-----------|----------------|-----------------|--------|-----------------|---------------------|---------------------|--------|
| | | Previous Part # | Part # | Previous Part # | Part # | Previous Part # | Part # |
| 1/2" | 3/8"-18 NPTF | --- | --- | PF6 | P4F3 | --- | --- |
| | 1/2"-14 NPTF | PFB8 | P4F4-B | PF8 | P4F4 | --- | --- |
| | 3/4"-14 NPTF | PFB12 | P4F6-B | PF12 | P4F6 | PF12SS | P4F6-S |
| | 3/4"-14 NPTF | --- | --- | --- | P4F6-9 ¹ | --- | --- |
| | 1"-11-1/2 NPTF | PFB16 | P4F8-B | PF16 | P4F8 | --- | --- |

¹ Steel/PTFE coating

Dimensions

| Size | A | B | Flat |
|------|-------|-------|-------|
| 3/8" | 1.79" | 1.55" | 0.88" |
| 1/2" | 2.25" | 1.55" | 1.31" |
| 3/4" | 2.34" | 1.55" | 1.31" |
| 1" | 2.76" | 1.55" | 1.44" |



NOTE: Must be used with couplers on page 28



Dual-Lock P-Series Thor Interchange Hose Barb Couplers with Knurled Flanged Sleeve

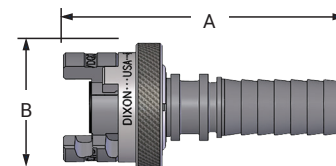
Features

- Trivalent Chrome plated
- Large, raised collar sleeve permits easier handling when wearing gloves.

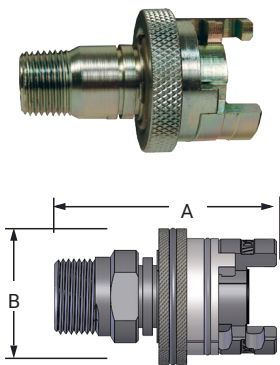
| Body Size | Hose I.D. | Trivalent Chrome Plated Steel | |
|-----------|-----------|-------------------------------|---------|
| | | Previous Part # | Part # |
| 1/2" | 3/8" | PHL6FS | 4PS3-FS |
| | 1/2" | PHL8FS | 4PS4-FS |
| | 3/4" | PHL12FS | 4PS6-FS |

Dimensions

| Size | A | B |
|------|-------|-------|
| 3/8" | 3.53" | 1.55" |
| 1/2" | 3.95" | 1.55" |
| 3/4" | 3.95" | 1.55" |



Dual-Lock P-Series Thor Interchange Male Couplers with Knurled Flanged Sleeve



Features

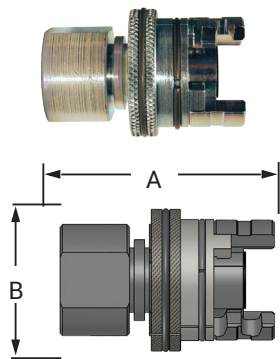
- Trivalent Chrome plated
- Large, raised collar sleeve permits easier handling when wearing gloves

| Body Size | Threads | Trivalent Chrome Plated Steel | |
|-----------|-----------|-------------------------------|---------|
| | | Previous Part # | Part # |
| 1/2" | 3/8" - 18 | PML6FS | 4PM3-FS |
| | 1/2" - 14 | PML8FS | 4PM4-FS |
| | 3/4" - 14 | PML12FS | 4PM6-FS |

Dimensions

| Size | A | B |
|------|-------|-------|
| 3/8" | 2.93" | 1.55" |
| 1/2" | 2.98" | 1.55" |
| 3/4" | 2.98" | 1.55" |

Dual-Lock P-Series Thor Interchange Female Couplers with Knurled Flanged Sleeve



Feature

- Large, raised collar sleeve permits easier handling when wearing gloves.

| Body Size | Threads | Trivalent Chrome Plated Steel | |
|-----------|-----------|-------------------------------|---------|
| | | Previous Part # | Part # |
| 1/2" | 1/2" - 14 | PFL8FS | 4PF4-FS |
| | 3/4" - 14 | PFL12FS | 4PF6-FS |

Dimensions

| Size | A | B |
|------|-------|-------|
| 1/2" | 2.75" | 1.55" |
| 3/4" | 2.75" | 1.55" |

Dual-Lock P-Series Thor Interchange Replacement Seals



| Body Size | Coupler Style | Nitrile Part # | FKM | |
|-----------|---------------|----------------|-----------------|-----------|
| | | | Previous Part # | Part # |
| 1/2" | all | 4P-SKIT | 452963 | F-4P-SKIT |

Thor Interchange Locking Key

Features

- Fits couplings with locking sleeve
- Prevents sleeve retraction



| Body Size | Coupler Style | Steel | |
|-----------|---------------|-----------------|---------|
| | | Previous Part # | Part # |
| 1/2" | all | 855231 | 4P-CLIP |

Dual-Lock P-Series Thor Interchange Couplers with Ferrule

Features

- Working pressure: **300 PSI** at ambient temperature **70°F (21°C)**
- Trivalent Chrome plated coupling with plated steel ferrule
- Also available in brass and stainless steel
- For crimp recommendations visit dixonvalve.com
- 3/8" and 1" sizes available upon request, contact Dixon®



| Body Size | Hose I.D. | Hose O.D. | | Trivalent Chrome Plated Steel | |
|-----------|-----------|-----------|----------|-------------------------------|---------|
| | | From: | To: | Previous Part # | Part # |
| 1/2" | 1/2" | 54/64" | 1-2/64" | PHL8WF | 4PS4-WF |
| | 3/4" | 1-10/64" | 1-22/64" | PHL12WF | 4PS6-WF |

Air Receiver Manifold Assembly

Part # 1217AR-4AK

Tank provides (1) 2" Ground Joint inlet for supply hose and (7) 3/4" outlets for tool hoses

Features

- All tank outlets have female NPT threads
- Portable - easy carry handles standard
- Solid base with mounting holes standard
- Approximate tank dimensions are 12" x 17"; 40" x 24" with frame
- Painted safety orange
- Spring-loaded safety shut-off valves (cut-off flow rate 160-180 CFM at 90 PSI)
- Safety Pop-off valve (**200 PSI**) to protect against over-pressurizing of tank
- Drain valve provides for removal of accumulated oil and water
- Locking handle ball valve
- Mounting points for King Safety Whipsocks

Specifications

- 7 gallon capacity provides air reserve needed for operation of tools
- **200 PSI** maximum working pressure for tank (*Working pressure of the system is limited to maximum working pressure of the components, i.e. 150 PSI for Air King®*)
- **0-300 PSI** gauge



Approvals

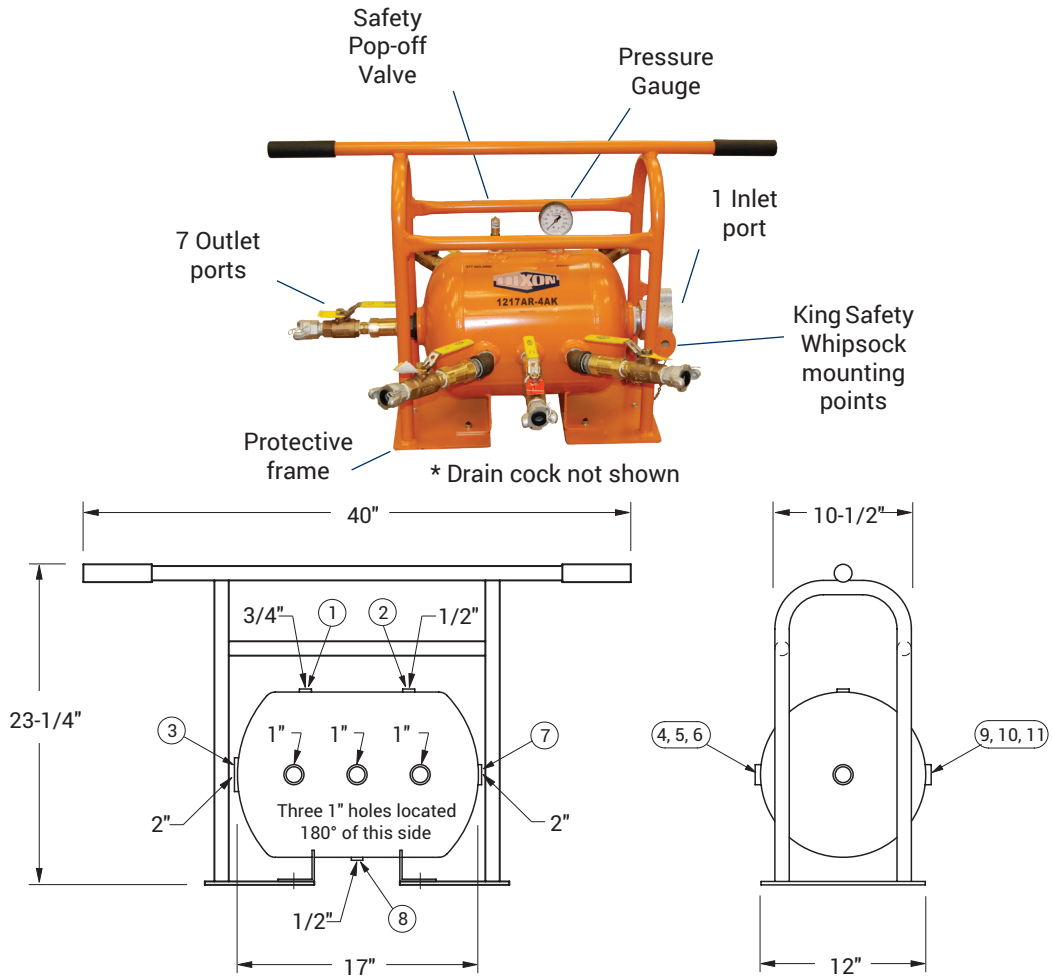
- Built to ASME Code, National Board registered
- Conforms to OSHA Standards 1910.169 and 1926.306



1217AR-4AK



1217AR-4FR



Dixon® 1217AR-4AK air receiver manifold assembly with Air King® outlet ports includes the following components:

| Part #/Locations | Qty | Description |
|------------------------------|-----|--|
| 1217AR-4 | 1 | ASME compressed air receiver |
| 1217FRAME | 1 | protective frame |
| Location 1 | 1 | HB2F6M 3/4" male x 1/4" female hex bushing |
| | 1 | GL345 0-300 PSI gauge |
| Location 2 | 1 | HB2F4M 1/2" male x 1/4" female hex bushing |
| | 1 | SV200 safety pop-off valve |
| Location 3 | 1 | GM28 2" male spud |
| | 1 | B27SC wing nut cap |
| Locations 4, 5, 6, 9, 10, 11 | 6 | HB1075G 1" male x 3/4" female bushings |
| | 6 | BCN75 3/4" brass hex nipples |
| | 6 | BBLV75 ball valves |
| | 6 | SCVS6 safety shut-off valves |
| | 6 | AM7 Air King universal couplings |
| | 4 | SE45100 45° street elbow (1 each in locations 4, 6, 9 and 11 only) |
| Location 7 | 1 | HB2075 2" male x 3/4" female bushing |
| | 1 | BCN75 3/4" brass hex nipples |
| | 1 | BBLV75 ball valve |
| | 1 | SCVS6 safety shut-off valve |
| Location 8 | 1 | AM7 Air King universal coupling |
| | 1 | HB2F4M 1/2" male x 1/4" female hex bushing |
| | 1 | D04 1/4" drain cock |
| 1217AR-4AK | --- | Labor cost for assembly of complete unit |
| 1217AR-4AK | 1 | 7 gallon ASME compressed air receiver manifold complete assembly with Air King |
| Tank and Frame only | | |
| 1217AR-4FR | 1 | 7 gallon ASME compressed air receiver with frame only |

Dixon recommends the use of safety clips and King safety cables on all air hose connections.



ASME Air Receiver Manifold with King Safety Whipsock for Supply Hose

Features

- Built to ASME Code, National Board registered
- Conforms to OSHA standards 1910, 169 and 1926.306
- 7 gallon capacity
- Painted safety orange
- All openings are female NPT thread
- Working pressure: **200 PSI**
- Includes KSW32 2" King Safety Whipsock for air supply hose
- Shackles included to attach King Safety Whipsock to frame



| Qty | Part # |
|-----|----------------|
| 1" | 1217AR-4AK-KSW |

ASME Air Tank with Fittings and Watts Filter

Application

- Designed to remove compressed air contaminants such as water, compressor oil, dirt, pipe scale and water particles from the air supply at the point of entry into the ASME air receiver manifold.

Features

- Includes basic 1217AR-4AK ASME manifold assembly
- F602-16WJR 2" auto drain filter with 26 ounce metal bowl and related plumbing installed on the inlet port of the ASME air receiver manifold
- Air supply hose connects directly to GM28 2" male spud on the filter air inlet
- Includes a B27SC wing nut cap with a chain



| Inlet | Outlet | Part # |
|-------|--------|--------------|
| 2" | 3/4" | 1217AR-4AKWF |

Wilkerson Combination Unit with Protective Frame

Features

- Provides downstream air preparation with protective frame
- C31-08AMB 1" FRL with metal bowls and auto drain filter
- FBV100 1" brass ball valve and AM12 Air King® on inlet port
- BBV100DTW 2-way ball valve installed between regulator and lubricator provides option for non-lubricated air
- Heavy duty frame protects air prep components
- Operating:
 - Maximum pressure: **250 PSIG**
 - Temperature range: **40°F to 150°F (4°C to 66°C)**
 - Flow: 320 SCFM



| Size | Part # |
|------|-------------|
| 1" | C31-08FRAME |

Safety Check Valve

Features

- Does not prevent backflow
- High flow valve to provide optimum performance
- Controls excess air flow (SCFM) in only one direction
- Not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs, expansion joint blow down pipes, etc.
- Automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip
- Conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines.
- Applications include temporary plant/factory air, construction sites, shipyards or utilities

Materials

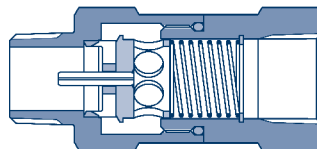
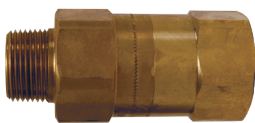
- Solid brass body and valve
- Stainless steel spring and roll pin

Specifications

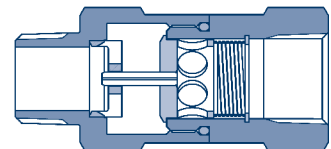
- Maximum working pressure: **350 PSI**
- Maximum temperature: **250°F (121°C)**
- Safety Check Valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air through the valve.
- When the pressure differential is within the operating limits -- below the cutoff flow -- of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see open position graphic below). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the closed position graphic below).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.

Questions to ask when selecting a safety shut-off valve

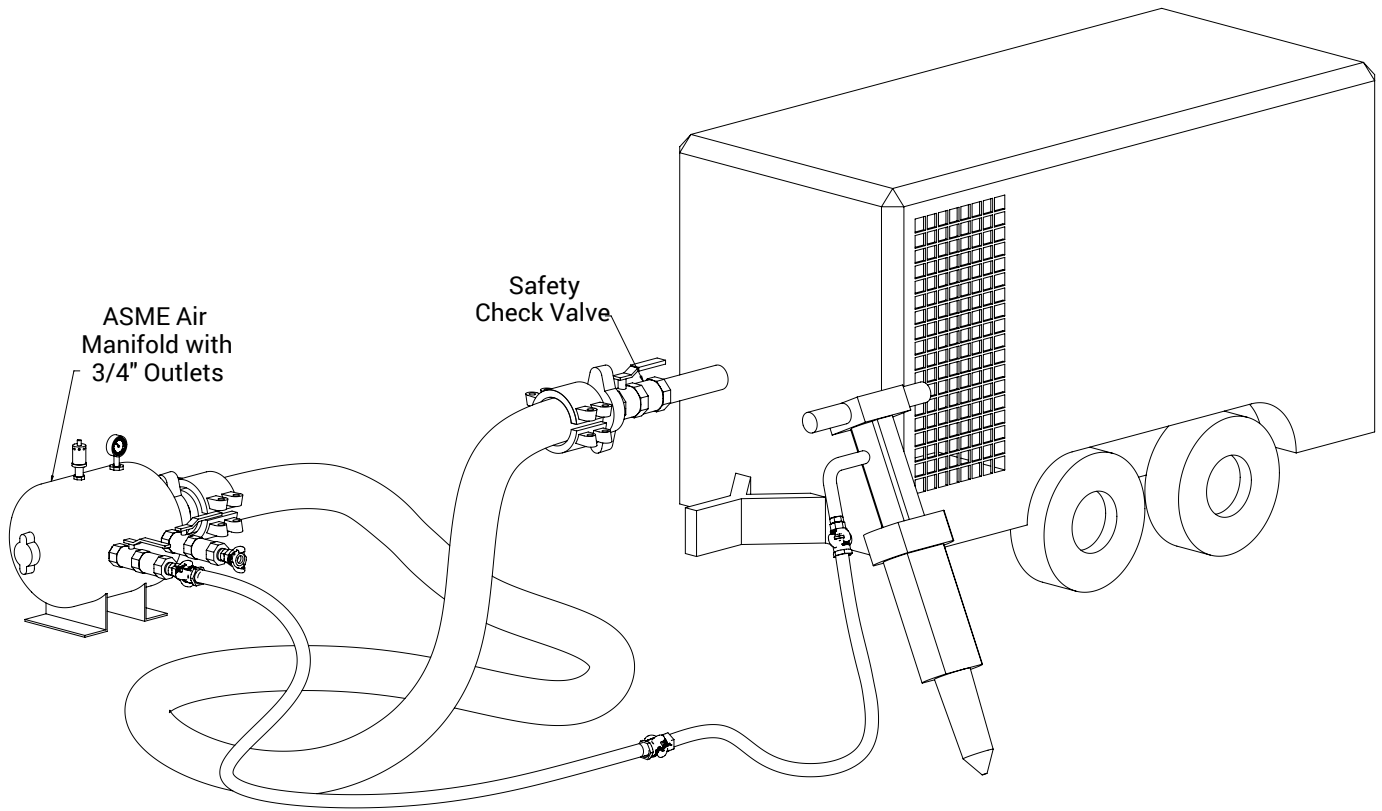
1. What is the hose I.D. size you are using?
2. What is the operating pressure of the compressor, in PSI?
3. What is the SCFM of your compressor? (printed on the side of most air compressors)
4. How much air flow, in SCFM, does the tool(s) require?
5. What is the maximum air flow possible, in SCFM, through your air hose, at the end of the length of the hose?
Contact Dixon® for recommendations if the hose length is over 100'.



Check Valve In Open Position



Check Valve In Closed Position



Installation

A safety shut-off valve should be placed immediately after the air control valve and before the hose on a compressor, and on each discharge port on a manifold (see drawing above).

Sizing the safety shut-off valve

1. The safety shut-off valve NPT size must be the same as the nominal I.D. size of the air line on which it is used.
NOTE: Never increase or decrease the hose size from the compressor to the tool or from the compressor to the manifold.
2. One safety shut-off valve must be used on each hose outlet from the manifold.
3. To avoid nuisance cut-off's, the shut-off valve selected should have a cut-off range of 110% of the maximum anticipated air flow to the tool, or tools, to be used.
4. The maximum SCFM of the supply side air line must be above the cut-off range of the valve. The cut-off range of Dixon®'s shut-off valves is given at **90 PSI**. To determine the cut-off range at other PSI's, use the formula or the sample numbers in the Cut-off Rate Chart below to find the flow rate multiplier. Multiply the flow rate multiplier by the numbers in the cut-off flow range column to find the cut-off range at your PSI.

Safety Shut-off Valve Cut-off Rates at PSI's Other Than 90 PSI

$$\text{Flow rate multiplier} = \sqrt{\frac{\text{PSIG} + 14.7}{104.7}}$$

| Inlet pressure (PSI) | 25 | 50 | 75 | 100 | 125 |
|----------------------|-----|-----|-----|------|------|
| Flow rate multiplier | .62 | .79 | .93 | 1.05 | 1.16 |

Operation

Before starting the compressor the air control valve should be closed completely. When the compressor unloads, open the air control valve very slowly. Full port ball valves tend to work better than gate or butterfly type valves.

The air control valve must be fully open for the safety shut-off valve to work. Some portable air compressor manufacturers recommend start-up with the air control valve slightly open. In this case you may have to close the valve and reopen it slowly to the full open position, or wait for the safety shut-off valve to reset itself.

If the valve fails to operate despite meeting all conditions, check the hose line for obstructions or a hose mender restricting normal air flow.

SCV-Series Selection Guide

1. Sketch the position of the tool, fittings, safety check and supply line. Measure the length of hose from the safety check to the tool. There should be no jump sizes in the hose between the safety check and the tool. You will need one safety check valve for each branch line feeding the tool. A safety check in the main supply line is also recommended.
2. Determine the hose size you want to protect. Select the same size safety check as the hose size. For example, a 3/8" hose will require a 3/8" safety check. Do not use a different size safety check. One exception to this rule is for 5/8" hose, use a 1/2" safety check valve.
3. Determine the maximum operating air flow (SCFM) required through the safety check during normal use. For example, the maximum air consumption of the largest tool used on that supply line. Determine the optimum cutoff flow by multiplying the maximum operating air flow by 110%.
4. Add to the length of hose, you measured in step 1, length adders to compensate for system components. Add 0.91 m (3') for each elbow, 0.91 m (3') for each tee, 3.05 m (10') for each globe valve, 0.61 m (2') for each gate valve, 0.91 m (3') for each hose fitting. This calculation will result in the total length for your safety check valve selection. Find the column in the Unobstructed Air Flow Chart, below, that corresponds to your hose size and the row that corresponds to your calculated total length. Where they intersect, is the unobstructed air flow in SCFM.
5. If the optimum cutoff flow is 80% of the unobstructed air flow or less, you should use the optimum cutoff flow (110% of the maximum calculated air flow) to select the appropriate safety check valve. To do this, find the safety check that has a corresponding cutoff flow rate in the product list on the next page.
6. If the optimum cutoff flow is greater than 80% of the unobstructed air flow, there may be a problem with the safety check valve sensing the difference between normal air demand and a line rupture. You may want to consider removing fittings from the flow path, reducing the length of your hose or increasing your hose diameter. If you are not sure, call your Dixon® distributor for assistance.
7. Always install one safety check and test the performance of the system before you continue other installations. When start-up is underway, open the air control valve at the compressor or manifold *very slowly* to allow air to bleed through the check valve so that pressure is equalized on each side of the valve. If the valve fails to operate despite meeting all conditions, check the supply line for obstructions or a hose mender restricting normal air flow.

Unobstructed Air Flow Chart (SCFM)

| Total Length (feet) | Hose Size (I.D.) | | | | | | | | | | |
|------------------------|------------------|------|------|------|------|-----|--------|--------|------|--------|------|
| | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 1" | 1-1/4" | 1-1/2" | 2" | 2-1/2" | 3" |
| 5 | 28 | 66 | 124 | 199 | 294 | 550 | 1200 | 1800 | 3300 | 5300 | 7900 |
| 8 | 27 | 65 | 123 | 196 | 290 | 540 | 1140 | 1700 | 3100 | 5000 | 7500 |
| 10 | 27 | 64 | 121 | 194 | 286 | 531 | 1100 | 1640 | 3000 | 4600 | 7200 |
| 20 | 26 | 62 | 116 | 189 | 278 | 520 | 960 | 1420 | 2500 | 4200 | 6300 |
| 30 | 24 | 58 | 108 | 175 | 258 | 480 | 850 | 1280 | 2300 | 3800 | 5600 |
| 50 | 22 | 54 | 101 | 163 | 240 | 447 | 720 | 1080 | 2000 | 3200 | 4700 |
| 75 | 20 | 47 | 86 | 140 | 207 | 385 | 670 | 960 | 1850 | 3000 | 4400 |
| 100 | 17 | 41 | 77 | 124 | 178 | 340 | 620 | 940 | 1760 | 2800 | 4200 |
| 150 | 15 | 35 | 65 | 105 | 158 | 290 | 590 | 870 | 1630 | 2600 | 3900 |
| 200 | 13 | 30 | 57 | 92 | 136 | 253 | 550 | 820 | 1520 | 2400 | 3600 |
| 250 | 11 | 27 | 51 | 83 | 123 | 228 | 520 | 780 | 1450 | 2300 | 3400 |
| 300 | 10 | 25 | 47 | 56 | 114 | 210 | 500 | 750 | 1390 | 2200 | 3300 |

Length Adders: 3' for each elbow
 3' for each tee
 10' for each globe valve
 2' for each gate valve
 3' for each hose fitting

• Use 1/2" Safety Check Valve for 5/8" hose.

Not recommended for applications requiring 100% of the available air supply. These applications include, but are not limited to, sand blast equipment, pile driving rigs, and expansion joint blow down pipes.

It is recommended to install auxiliary safety devices, including King Cables®, to ensure optimum safety for the operator in the event of a coupling failure or hose rupture. (see page 46)



| NPT and Hose I.D. Size | Part # | Cut-off Flow Range (SCFM at 90 PSI) |
|---------------------------|--------|--|
| 1/4" | SCVL2 | 23-29 |
| | SCVM3 | 39-47 |
| 3/8" | SCVS3 | 52-65 |
| | SCVM4 | 70-78 |
| 1/2" | SCVS4 | 80-96 |
| | SCVL6 | 72-88 |
| 3/4" | SCVM6 | 92-108 |
| | SCVR6 | 112-128 |
| | SCVJ6 | 132-148 |
| | SCVS6 | 160-180 |
| | SCVH6 | 180-200 |
| | SCVL8 | 165-195 |
| 1" | SCVM8 | 220-260 |
| | SCVS8 | 280-320 |
| | SCVH8 | 310-340 |
| | SCVL10 | 260-290 |
| 1-1/4" | SCVM10 | 300-340 |
| | SCVS10 | 440-500 |
| | SCVH10 | 570-630 |
| | SCVL12 | 300-360 |
| 1-1/2" | SCVM12 | 470-530 |
| | SCVS12 | 640-720 |
| | SCVH12 | 750-830 |
| | SCVL16 | 510-590 |
| 2" | SCVM16 | 725-825 |
| | SCVS16 | 900-1050 |
| | SCVH16 | 1100-1200 |
| | SCVL24 | 1200-1400 |
| 3" | SCVS24 | 2400-2700 |
| | SCVH24 | 2850-3050 |

Performance Specifications

- High flow design results in maximum flow with minimal pressure drop
- Automatically and instantly protects the operator against hose whip in the event of a damaged hose or coupling
- In the event of a hose rupture or coupling failure, the valve will automatically reset after the problem is fixed.
- SCV-Series is available in a large selection of sizes ranging from 1/4" to 3", NPTF or BSPP/BSPT threads.
- Valve operation is fully compliant with OSHA Safety Regulation 1926.302(b)(7), (referenced on Page 1).




| Performance Specifications | Operating Bar (PSI) | Minimum Burst Bar (PSI) | Temperature °C (°F) | Air Flow ¹ 30.5m (100') |
|----------------------------|---------------------|-------------------------|---------------------|------------------------------------|
| 1/4" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 17 SCFM |
| 3/8" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 41 SCFM |
| 1/2" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 77 SCFM |
| 3/4" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 178 SCFM |
| 1" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 340 SCFM |
| 1-1/4" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 620 SCFM |
| 1-1/2" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 940 SCFM |
| 2" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 1,760 SCFM |
| 2-1/2" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 2,800 SCFM |
| 3" | 350 (24 Bar) | 138 (2,000) | 121 (250) | 4,200 SCFM |

¹ Air flow rating is based upon calculated values using unobstructed air flow for the applicable hose size.

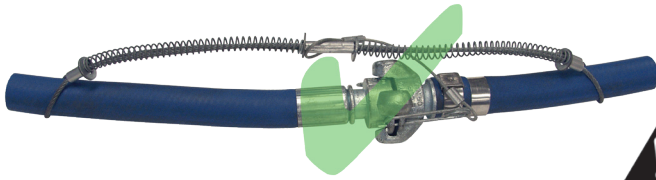
King Cable®

Features

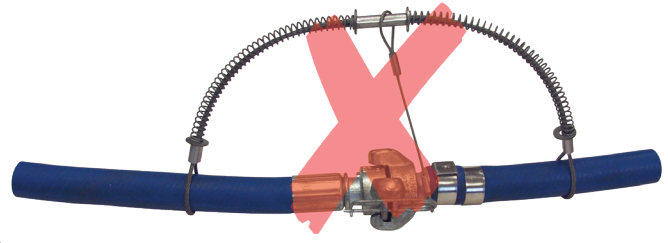
- Must be installed in the extended position (no slack) 
- Cable reaches across hose fittings to provide standby safety for hose
- Spring-loaded loops in the cable ends open easily to pass over the couplings for a firm grip on the hose
- No tools needed - easy to install and remove
- Cables shipped with safety restraint labels attached
- Highly resistant to rust and corrosion
- Hose-to-hose or hose-to-rigid outlet
- Maximum operating pressure: **200 PSI**
- Minimizes damage to equipment and injuries to operators in the event hose, couplings or clamps fail, or there is an accidental separation of the assembly

Materials

- For WB1, WB3, WA2, WA4, WSR1, WSR3, WSR2, WSR4, WSR1C, WB1C, WSR1E:
wire rope: galvanized carbon steel
ferrules: aluminum
springs: galvanized carbon steel
- For WB1SS, WA2SS, WSR1SS, WSR2SS:
wire rope: 304 stainless steel
ferrules: copper
springs: 304 stainless steel
- For WA2B:
wire rope: galvanized carbon steel
ferrules: copper
springs: galvanized carbon steel



Correct Installation
King Safety Cable installed in the extended position
(no slack)



Incorrect Installation
King Safety Cable is not installed in the extended position
(too much slack)

For OSHA regulations please reference osha.gov

King Cable®

Features

- Hose-to-hose or hose-to-tool endminate injuries caused by broken air hose connections
- Highly resistant to rust and corrosion
- No tools needed - easy to install and remove
- Maximum working pressure **200 PSI**



Hose End

Tool End

Style WSR, for hose-to-tool service

| Hose I.D. | Cable | Length | Maximum Working Pressure (PSI) | Steel Part # | Stainless Steel Part # |
|---------------|-------|---------|--------------------------------|--------------|------------------------|
| 1/2" - 1-1/4" | 1/8" | 20-1/4" | 200 | WSR1 | WSR1SS |
| 1/2" - 2" | 3/16" | 28" | 200 | WSR3 | --- |
| 1-1/2" - 3" | 1/4" | 38" | 200 | WSR2 | WSR2SS |
| 4" | 3/8" | 44" | 200 | WSR4 | --- |



Hose End

Hose End

Style W, for hose-to-hose service

| Hose I.D. | Cable | Length | Maximum Working Pressure (PSI) | Steel Part # | Stainless Steel Part # |
|---------------|-------|---------|--------------------------------|--------------|------------------------|
| 1/2" - 1-1/4" | 1/8" | 20-1/4" | 200 | WB1 | WB1SS |
| 1/2" - 2" | 3/16" | 28" | 200 | WB3 | --- |
| 1-1/2" - 3" | 1/4" | 38" | 200 | WA2 | WA2SS |
| 4" | 3/8" | 44" | 200 | WA4 | --- |

Note: Cables are shipped with safety restraint labels attached.

King Cable® Options



WB1C

WB1 with safety clip and lanyard



WSR1E

WSR1E with stainless steel marine eye

| Hose I.D. | Cable | Part # | Description | Maximum Working Pressure (PSI) |
|---------------|-------|--------|--|--------------------------------|
| 1/2" - 1-1/4" | 1/8" | WSR1C | WSR1 with safety clip and lanyard used to lock Air King® couplings | 200 |
| 1/2" - 1-1/4" | 1/8" | WB1C | WB1 with safety clip and lanyard used to lock Air King couplings | 200 |
| 1/2" - 1-1/4" | 1/8" | WSR1E | WSR1 with stainless steel safety marine eye used to connect safety cable to a bolt on tool | 200 |
| 1-1/2" - 3" | 1/4" | WA2B | WA2 with bronze/copper ferrule for special environmental conditions | 200 |

NOTE: For King Cable installation procedures please reference canada.dixonvalve.com

Nylon King Cable®

Applications

- Pneumatic, hydraulic and water hoses

Features

- Strong, flexible nylon webbing
- Superior corrosion and spark resistance over metal restraints
- Rubber grommets securely choke eyes around hose
- Must be installed in the extended position (no slack)
- Shipped with labels detailing working pressures and safety instructions
- Maximum working temperature: **200°F (93°C)**
- Minimizes damage to equipment and injuries to operators in the event hose, couplings or clamps fail, or there is an accidental separation of the assembly
- Contact Dixon at 888.226.4673 for additional options

Materials

- Strap: nylon
- Grommets: rubber



| Length | Recommended for use on the following hose inside diameters: | | | | | | | | Nylon Part # |
|--------|---|--------|-------|-------|-------|-------|-----|-----|--------------|
| | 1/4" | 1/2" | 3/4" | 1" | 2" | 3" | 4" | 6" | |
| | Hose maximum working pressure (PSI) for above hose I.D.'s | | | | | | | | |
| 30" | 26,000 | 6,500 | 2,900 | 1,650 | 400 | --- | --- | - | WBN130 |
| 40" | --- | --- | --- | 1,650 | 400 | 175 | 100 | - | WBN140 |
| 30" | 52,000 | 13,000 | 5,800 | 3,300 | 750 | --- | --- | - | WBN230 |
| 64" | --- | --- | --- | --- | 750 | 350 | 200 | 90 | WBN264 |
| 44" | --- | --- | --- | 7,300 | 1,800 | 820 | 450 | - | WBN344 |
| 64" | --- | --- | --- | --- | 2,300 | 1,040 | 580 | 260 | WBN464 |

King Safety Whipsocks

Application

- Ideally suited for applications where the media being transferred is under higher working pressures such as air, water, hydraulic and slurry

Materials

- Wire rope: galvanized carbon steel
- Ferrules: aluminum



KSW32



KSW40

Features

- King Safety Whipsocks keep the hose under control in the event of a high-pressure hose assembly failure
- Dual anchor points secured beyond the fittings eliminate hose whip
- Be sure the anchoring points are rated for the application
- Galvanized steel woven stockings extend down the hose to grip securely over a larger area preventing whip, abrasion and wear
- Securing both eye-to-rigid or eye-to-eye anchor points reduce whip in the event of a hose connection failure
- Contact Dixon® with questions regarding working pressure, available options or custom configurations



| Size | O.D. Range | Length | Maximum Working Pressure (PSI) | Part # |
|--------|-----------------|--------|--------------------------------|--------|
| 3/8" | .315" - .5512" | 15.75" | 5000 | KSW06 |
| 1/2" | .5512" - .7874" | 21.65" | 3000 | KSW08 |
| 3/4" | .7874" - 1.181" | 25.20" | 2000 | KSW12 |
| 1" | 1.181" - 1.575" | 34.25" | 1500 | KSW16 |
| 1-1/4" | 1.575" - 1.969" | 38.19" | 1000 | KSW20 |
| 1-1/2" | 1.969" - 2.362" | 49.21" | 700 | KSW24 |
| 2" | 2.362" - 2.756" | 51.18" | 1300 | KSW32 |
| 2-1/2" | 2.756" - 3.346" | 53.15" | 800 | KSW40 |
| 3" | 3.346" - 3.937" | 72.44" | 750 | KSW48 |
| 3-1/2" | 3.937" - 4.724" | 72.05" | 550 | KSW56 |
| 4" | 4.724" - 5.512" | 86.61" | 550 | KSW64 |
| 6" | 5.512" - 7.087" | 93.31" | 250 | KSW96 |

King Safety Shackle

Applications

- 2 shackles are used to anchor the King Safety Whipsock
- Securing both eyes to a rigid anchor point to reduce whip in the event of a hose or connection failure

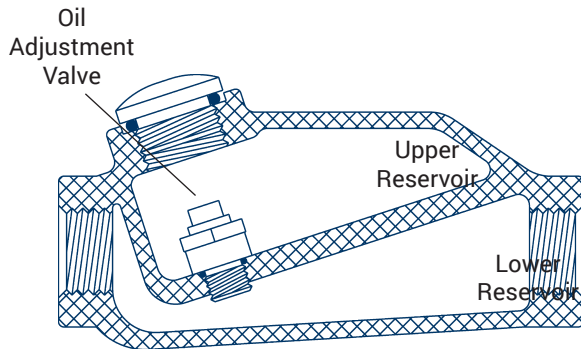
Features

- Recommended bolt, nut, and cotter pin style shackle
- Caution working load must be rated for the application



| Size | Working Load | Fits KSW Eye | Micro Alloy Steel Part # |
|------|----------------------|--------------|--------------------------|
| 1/4" | 1/2 ton (1000 lbs) | KSW06-KSW12 | KSS04 |
| 3/8" | 1-1/2 ton (3000 lbs) | KSW16-KSW40 | KSS06 |
| 1/2" | 3 ton (6000 lbs) | KSW48-KSW96 | KSS08 |

Dixon® In-Line Lubricators



Features

- The minimum flow rate that must be achieved for the PL series lubricators to work is 30 SCFM. A flow rate less than 30 SCFM will not create the pressure difference needed between chambers to force the oil into the air stream.
- Install within 25 feet of the air tool requiring lubrication. Refer to the arrow for proper air flow direction.
- Transparent sight disc allows visual inspection of oil level
- Oil flow regulated by screwdriver adjustment of oil adjustment valve inside body
- Not recommended for constant flow applications
- For use on reciprocating tools only
- Can dispense standard air tool lubricant or Dixon anti-freeze lubricant
- Lubricator body is 356-T6 aluminum

Description

- The lubricator has two reservoirs. The upper reservoir holds the oil, and a lower reservoir that is the passageway for the air to enter. The air and oil mixture exits through the lower reservoir. The oil adjustment valve between the two compartments initially allows air to enter the reservoir to pressurize it, and then it controls the amount of oil entering the air stream.

How it works

- Before the hose is charged with air, the pressure in both chambers of the lubricator are equal. When the tool is turned on it draws air from the compressor through the lower chamber. As air passes through the lower chamber it creates an area of low pressure. When the pressure in the lower chamber is less than the pressure in the upper chamber the dual purpose oil adjustment valve allows oil to flow at the set rate into the airstream of the chamber below to lubricate the tool. When the flow of air stops, the oil adjustment valve allows pressure to build in the top chamber until the pressure is equal between the top and bottom. As long as the pressure in the upper chamber is less than or equal to the pressure in the lower chamber no oil will flow through the oil adjustment valve.

NOTE: These lubricators are only recommended for use with tools that are frequently turned on and off.



Installation

- At start up, additional lubricant is required to coat the inside of the line between the lubricator and the tool. To avoid operating a dry tool, add 1/2 ounce (15cc) of oil directly into the line.
- By removing the fill plug and using a screwdriver, the operator can adjust the amount of oil flowing into the air stream. It is not necessary to shut off the airflow to do this.
- The viscosity of the oil used and uniqueness of the application determine the right setting for proper lubrication. A setting of 5 is suitable for average conditions using 10-weight oil. Remember that the lag time between adjustment and resulting effect at the tool may be as long as an hour. Make small adjustments, and check the result.

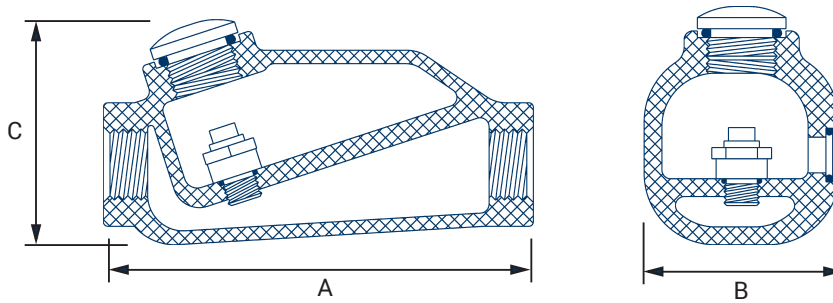
Storage

- The simple principle behind the operation of this lubricator does not provide for oil shut off when the tool is not being used. To prevent a pressure differential from forcing the remaining oil from the reservoir into the air line, turn the lubricator upside down or open the fill plug to depressurize the reservoir.

Safety Notes

- Wear eye protection when connecting or disconnecting couplings. Always use a whip hose with impact tools, King Cable® to protect junctions, and couplings that are compatible with the media being transferred.
- Always unscrew fill plug slowly to depressurize upper chamber before filling or adjusting valve.

In-Line Lubricator



| NPT Sizes | Part # | Oil Capacity | Maximum Working Pressure | Air Flow at 70 PSI | Length A | Width B | Height C | Weight |
|-----------|--------|-----------------|--------------------------|--------------------|----------|---------|----------|---------|
| 1/2" | PL300 | 1.4 fluid ozs. | 500 PSI | 30 SCFM | 4-1/2" | 2-1/4" | 2-1/4" | 14 ozs. |
| 3/4" | PL400 | 3.7 fluid ozs. | 200 PSI | 70 SCFM | 6" | 2-3/4" | 2-3/4" | 22 ozs. |
| 3/4" | PL400L | 11.0 fluid ozs. | 300 PSI | 70 SCFM | 7" | 3-1/2" | 3-3/4" | 38 ozs. |
| 1" | PL500 | 16.0 fluid ozs. | 250 PSI | 100 SCFM | 10" | 4-1/4" | 4" | 69 ozs. |

Available with Filter

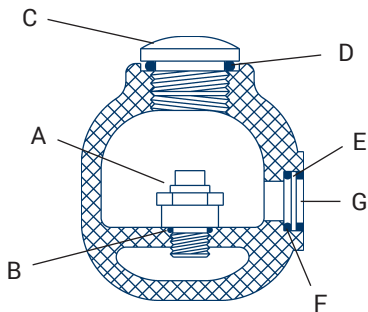


Feature

- Consists of 9076M particle filter with 40 micron sintered bronze element and PL400 (3.7 ounce) or PL400L (11.0 ounce) lubricator

| NPT Size | Oil Capacity | Maximum Working Pressure at ambient Temperature 70°F (21°C) | Aluminum Part # |
|----------|-----------------|---|-----------------|
| 3/4" | 3.7 fluid ozs. | 200 PSI | PL400WF |
| 3/4" | 11.0 fluid ozs. | 300 PSI | PL400LWF |

(same for all sizes)



| Description | Part # |
|-----------------------------------|--------|
| (A) oil adjustment valve assembly | 851661 |
| (B) valve gasket | 452531 |
| (C) fill plug | 452525 |
| (D) fill plug O-ring | 844319 |
| (E) sight disk | 452532 |
| (F) sight disk seal | 847272 |
| (G) sight disk lock nut | 452533 |

Type of oil to use

- Any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. Do not use any synthetic oil or oils containing additives or solvents.



Lubricant

| Part # | Size |
|---------|----------|
| DATL016 | 1 pint |
| DATL128 | 1 gallon |

Anti-Freeze

| Part # | Size |
|----------|----------|
| DATL016W | 1 pint |
| DATL128W | 1 gallon |

Minsup® Air Operated Lubricator

Features

- The 1-1/4" filler plug has a built in pressure release behind the sealing O-ring to allow pressure to escape in a controlled manner in the case of unintentional opening while under pressure
- The Minsup oil bottle was developed to ensure continuous & adequate lubrication of rock drills over the length of a normal shift. Why 1.2 Litres? This is the calculated oil usage for one 8 hour shift, when set correctly
- 1mm diameter jet designed for use with Rock drill lubricating oil
- For correct lubrication the oil bottle should not be placed in excess of three meters from the machine ensuring that the oil reaches the machine in mist form.



| NPT Size | Oil Capacity | Max WP PSI | Part # |
|----------|--------------|------------|--------|
| 1" | 1.2 Lt. | 300 | SLL1 |

Air Accessories



Safety Pop-Off Valves

Filters, Regulators and Lubricators

Gauges

Ball Valves

Boss® Fittings and Clamps

3500-Series nipples

Bent Stem Swivels

Compressor Y fitting

Please reference the current Dixon® Product List catalog or canada.dixonvalve.com for air accessories

Gauges



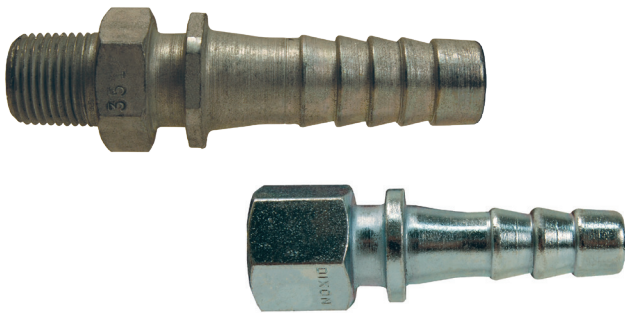
Features

- Designed for long reliable service
- Standard dry and liquid-filled pressure gauges, compound pressure gauges, vacuum gauges, and welding gauges

Materials

- Materials available in brass, stainless steel, plastic

3500 Nipples



Feature

- Used with whip hose to withstand vibration

Material

- Zinc-plated steel

Specifications

- Male nipple: hose size 1/4" - 1", NPT size 1/8" - 1"
- female nipple: hose size 1/4" - 3/4", NPT size 1/4" - 3/4"

Compressor Y



Feature

- Converts a single supply source to a dual outlet

Material

- Material: iron

Specifications

- Female NPT 1" (1), male NPT 3/4" (2)



Features

- National Board Certified Safety Valves
- Available in heavy duty high capacity, standard, and soft seat

Materials

- Material brass and stainless steel

Specification

- Maximum operating temperature 400°F (204°C)

Safety Vented Ball Valves

Features

- Handle position quickly indicates if valve is open or closed
- Blow-out proof stem design
- RTFE seats and stuffing box ring

Specification

- Rated to **600 PSI**



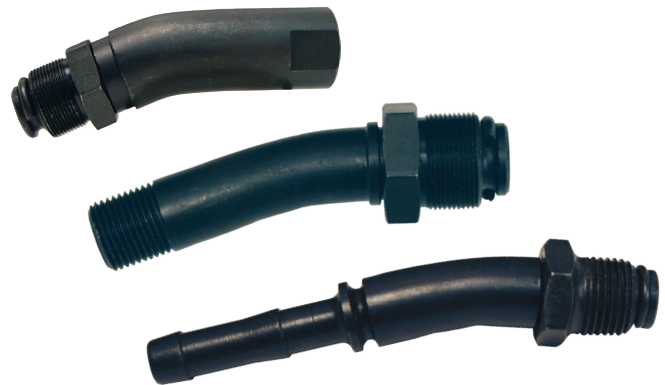
Steel Bent Stem Swivels

Features

- Convenient air tool connectors
- Comes in 7/8" thread which fits most chipping hammers

Specification

- Designed for normal operation at **90 PSI** at ambient temperature **70°F (21°C)**



Hose Rack and Reels

Features

- Reelcraft spring driven hose reels
5000, 7000, and 80000 series available
- Hose racks for hose sizes 1-1/2" to 2-1/2", 50' to 200'



Filters, Regulators and Lubricators



Features

- Series 1, Watts, and Wilkerson brands available
- Inventories all components and sizes from 1/8" to 2"
- General purpose, rugged and reliable

Safety Tag and Tape



Features

- Tags sold in quantities of 100
- Length of tape - 55 yards, approximately 255 warnings



Air Supply Requirements (Operating Pressure: 90 PSI)

| Tool | Class | Typical Air Consumption (CFM) | Hose Size (inches) | | |
|--------------------------|---------------|-------------------------------|--------------------|-----------|------------|
| | | | 0-10 ft. | 10-50 ft. | 50-200 ft. |
| Paving Breakers | 25 lb. | 45 | 1/2" | 1/2" | 3/4" |
| | 35 lb. | 50 | 1/2" | 3/4" | 3/4" |
| | 60 lb. | 65 | 1/2" | 3/4" | 1" |
| | 80 lb. | 80 | 3/4" | 3/4" | 1" |
| Claydiggers | | 45 | 1/2" | 1/2" | 3/4" |
| Hand Drills | 8 lb. | 20 | 3/8" | 3/8" | 1/2" |
| | 15 lb. | 32 | 3/4" | 1/2" | 1/2" |
| Rock (Sinker) Drills | 45 lb. | 105 | 3/4" | 3/4" | 1" |
| | 55 lb. | 130 | 3/4" | 1" | 1" |
| Tampers | 5" butt | 20 | 3/8" | 1/2" | 1/2" |
| | 6" butt | 30 | 1/2" | 1/2" | 3/4" |
| Sump Pump Sludge Pump | 3 HP | 100 | 3/4" | 3/4" | 1" |
| | Ejector | 90 | 1" | 1" | 1" |
| Vibrators | 2-1/2" | 60 | 1" | 1" | 1" |
| | 3" | 60 | 1" | 1" | 1" |
| Chipping Hammers | | 25 | 3/8" | 1/2" | 1/2" |
| Impact Wrenches | 3/8" sq. dr. | 10 | 5/16" | 3/8" | 3/8" |
| | 1/2" | 15 | 5/16" | 3/8" | 1/2" |
| | 3/4" | 25 | 3/8" | 1/2" | 1/2" |
| | 1" | 50 | 1/2" | 3/4" | 3/4" |
| Drills | 1/4" - 1/2" | 22 | 3/8" | 3/8" | 1/2" |
| Grinders | die/burr | 20 | 3/8" | 3/8" | 1/2" |
| | small angle | 20 | 3/8" | 3/8" | 1/2" |
| | 3 HP vertical | 75 | 1/2" | 3/4" | 1" |

Pressure Conversions

100 PSI = 6.9 Bars

250 PSI = 17.25 Bars

600 PSI = 41.4 Bars

5 Bars = **72.5 PSI**

10 Bars = **145 PSI**

25 Bars = **362.5 PSI**

Force Chart

Force (In Pounds)

| Hose I.D. | 25 PSI | 50 PSI | 75 PSI | 100 PSI | 150 PSI | 200 PSI | 250 PSI | 300 PSI | 500 PSI | 1000 PSI |
|-----------|--------|--------|--------|---------|---------|---------|---------|---------|---------|----------|
| 1/4" | 1 | 2 | 4 | 5 | 7 | 10 | 12 | 15 | 25 | 49 |
| 3/8" | 3 | 6 | 8 | 11 | 17 | 22 | 28 | 33 | 55 | 110 |
| 1/2" | 5 | 10 | 15 | 20 | 29 | 39 | 49 | 59 | 98 | 196 |
| 3/4" | 11 | 22 | 33 | 44 | 66 | 88 | 110 | 133 | 221 | 442 |
| 1" | 20 | 39 | 59 | 79 | 118 | 157 | 196 | 236 | 393 | 785 |
| 1-1/4" | 31 | 61 | 92 | 123 | 184 | 245 | 307 | 368 | 614 | 1227 |
| 1-1/2" | 44 | 88 | 133 | 177 | 265 | 353 | 442 | 530 | 884 | 1767 |
| 2" | 79 | 157 | 236 | 314 | 471 | 628 | 785 | 942 | 1571 | 3142 |
| 2-1/2" | 123 | 245 | 368 | 491 | 736 | 982 | 1227 | 1473 | 2454 | 4909 |
| 3" | 177 | 353 | 530 | 707 | 1060 | 1414 | 1767 | 2121 | 3534 | 7069 |
| 4" | 314 | 628 | 942 | 1257 | 1885 | 2513 | 3142 | 3770 | 6283 | 12566 |
| 5" | 491 | 982 | 1473 | 1964 | 2945 | 3927 | 4909 | 5891 | 9818 | 19635 |
| 6" | 707 | 1414 | 2121 | 2827 | 4241 | 5655 | 7069 | 8482 | 14137 | 28274 |
| 8" | 1257 | 2513 | 3770 | 5027 | 7540 | 10053 | 12566 | 15080 | 25133 | 50266 |
| 10" | 1964 | 3927 | 5891 | 7854 | 11781 | 15708 | 19635 | 23562 | 39270 | 78540 |
| 12" | 2827 | 5655 | 8482 | 11310 | 16965 | 22620 | 28274 | 33929 | 56549 | 113098 |

NOTE: For hose I.D.'s from 1-1/4" to 12" the force in pounds is greater than the PSI.

- Force is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of pounds of force exerted, you merely multiply the area of the I.D. times the working pressure being used.
- Area of a circle: $\pi \times r^2$ (PI [3.1416] times radius squared)
- Force = Area x Pressure

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